

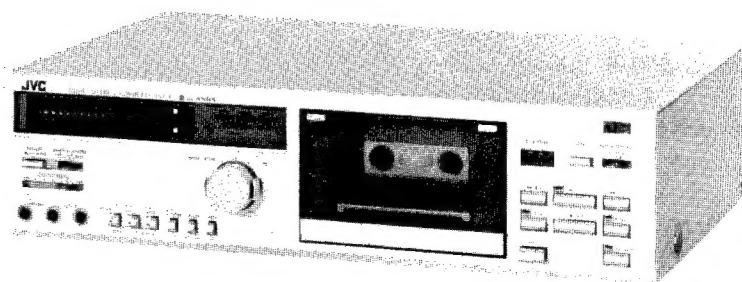
JVC

SERVICE MANUAL

MODEL

DD-5 A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4197
January 1981

Features

- Pulse-servo direct drive/Two-motor full logic operation mechanism
- Low wow/flutter (WRMS 0.021%)
- Two-color long scale FL digital display peak meter with hold
- Sen-Alloy record/playback head
- ANRS/DOLBY B and Super ANRS incorporated
- Metal tape compatible
- New slim design with push button switches
- Auto-rewind PLAY/STOP
- Remote control facility (R-50E, option)
- Record muting (REC MUTE) mechanism (with operation indicator LED)
- Timer standby facility with safety lock
- Output volume with headphone volume

Controls and Connections

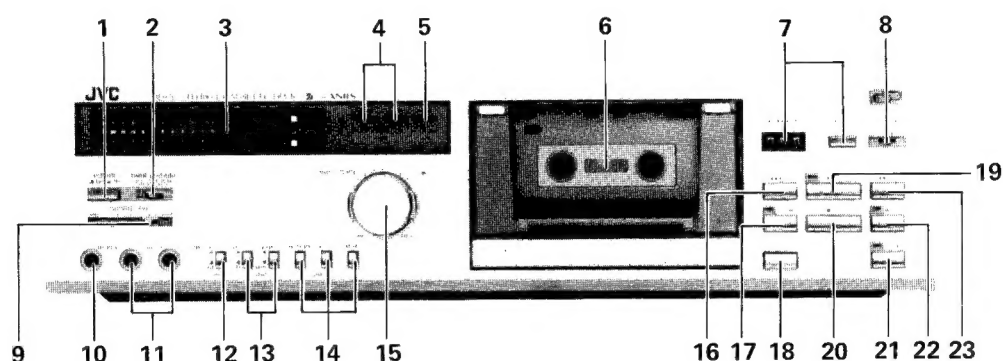


Fig. 1

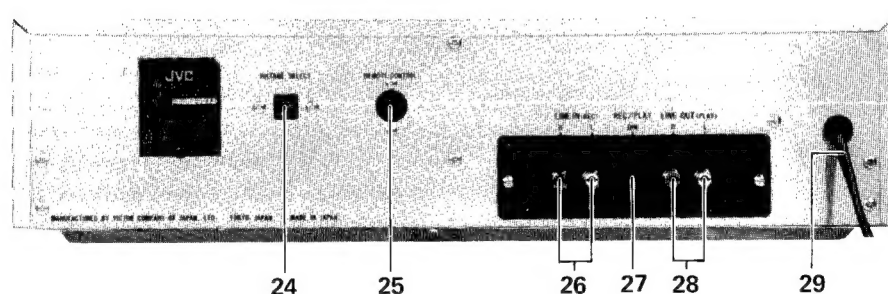


Fig. 2

- | | |
|--|--|
| 1 POWER switch | 15 INPUT LEVEL control |
| 2 TIMER STANDBY switch | 16 ◀◀ REW (rewind) button |
| 3 FL level indicator | 17 ○ REC (recording) button with indicator |
| 4 ANRS indicator (SUPER ANRS) | 18 EJECT button |
| 5 METAL tape indicator | 19 ▶ PLAY button with indicator |
| 6 Cassette holder | 20 ■ STOP button |
| 7 Tape COUNTER/Counter RESET button | 21 REC MUTE button with indicator |
| 8 AUTO REWIND switch | 22 PAUSE button with indicator |
| 9 OUTPUT LEVEL control | 23 ▶▶ FF (fast forward) button |
| 10 Headphone jack (PHONES) | 24 VOLTAGE SELECT switch (DD-5B/E/U) |
| 11 Microphone jacks (MIC-L, -R) | 25 REMOTE CONTROL socket |
| 12 INPUT select switch (MIC/DIN-LINE) | 26 LINE IN terminals |
| 13 ANRS switch (ON-OFF, SUPER-ANRS/DOLBY B) | 27 REC/PB socket |
| 14 Tape select switch (SF/NORM, SA/CrO ₂ , METAL) | 28 LINE OUT terminals |
| | 29 Power cord |

Main Parts Location

Top view

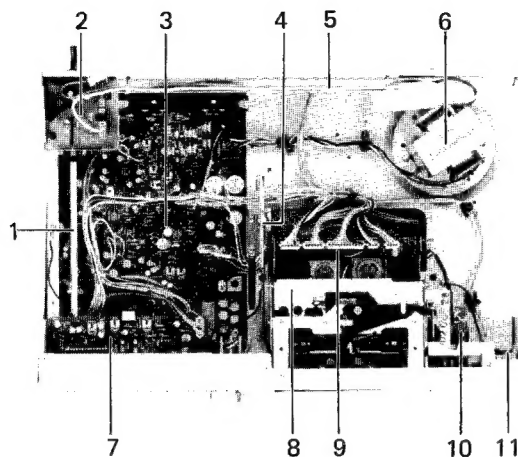


Fig. 3

- 1 Remote bar for power switch
- 2 Power switch P.W.B. ass'y
- 3 Main amp. P.W.B. ass'y
- 4 Gear-oiled damp brake
- 5 Remote control socket
- 6 Power transformer
- 7 FL indicator P.W.B. ass'y
- 8 Mechanical assembly
- 9 Mecha. control P.W.B. ass'y
- 10 Hall IC P.W.B. ass'y
- 11 Auto-Rewind switch

Front view

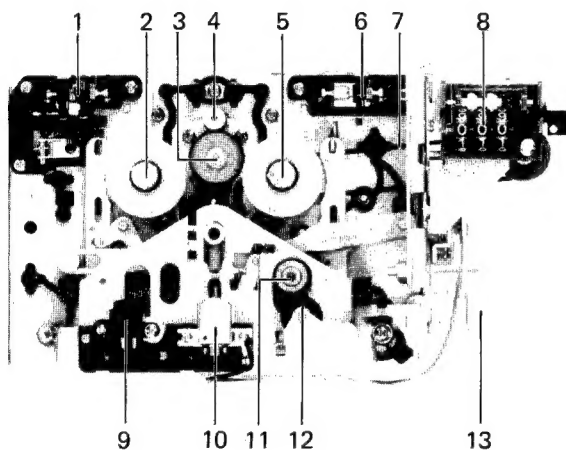


Fig. 4

(Mechanical parts)

- 1 Switch holder (L)
- 2 Supply reel disc
- 3 Idler ass'y
- 4 Reel motor pulley
- 5 Take-up reel disc
- 6 Switch holder (R)
- 7 Counter belt
- 8 Counter
- 9 Erase head
- 10 REC/PB head
- 11 Capstan (Direct Drive Motor shaft)
- 12 Pinch roller ass'y
- 13 Eject lever
- 14 Mecha. control P.W.B. ass'y
- 15 Brake solenoid
- 16 Reel motor
- 17 Play solenoid
- 18 Hall IC P.W.B. ass'y

Top view

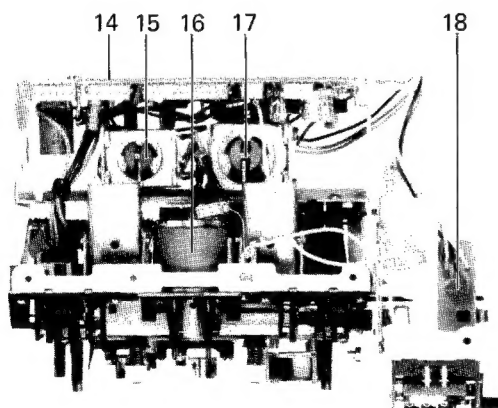


Fig. 5

Description on technology

For the following technology, refer to "Description on new technology" of DD-7A/B/C/E/J/U service manual (No. 4195).

■ Direct Drive (D. D.) motor

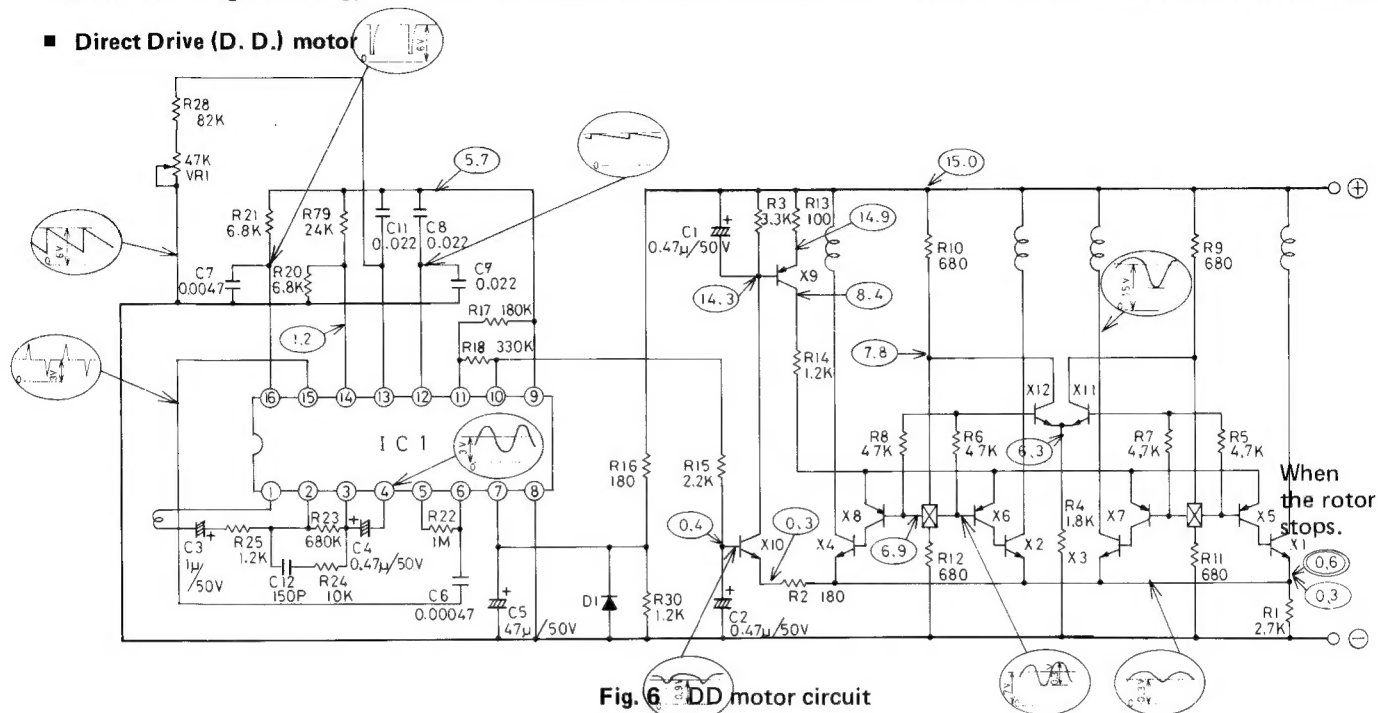


Fig. 6 DD motor circuit

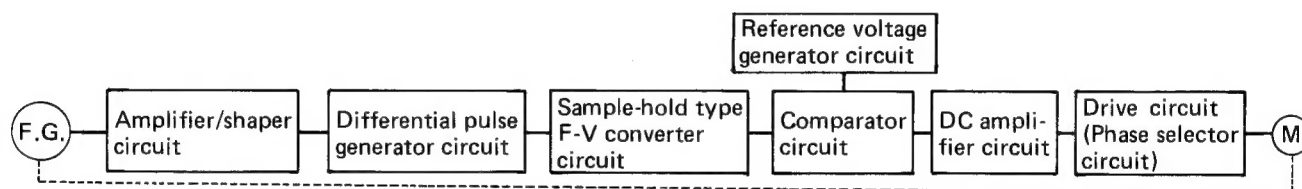


Fig. 7 DD motor block diagram

Other functions not written here are the same as those of DD-7A/B/C/E/J/U.

- Two-solenoid mechanism with real-time pause function.
- FL level meter circuit.

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

- 1) Push Eject button to open the cassette holder.
- 2) Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
(It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Do the same method as heads.

3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.

* Do not use thinner or benzene.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they may become magnetized. A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head. Gradually move it away from the head and switch it off at a distance of more than 30 cm (12").
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.

* Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Removal of the main parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a

deck design aimed mainly at compactness and high performance.

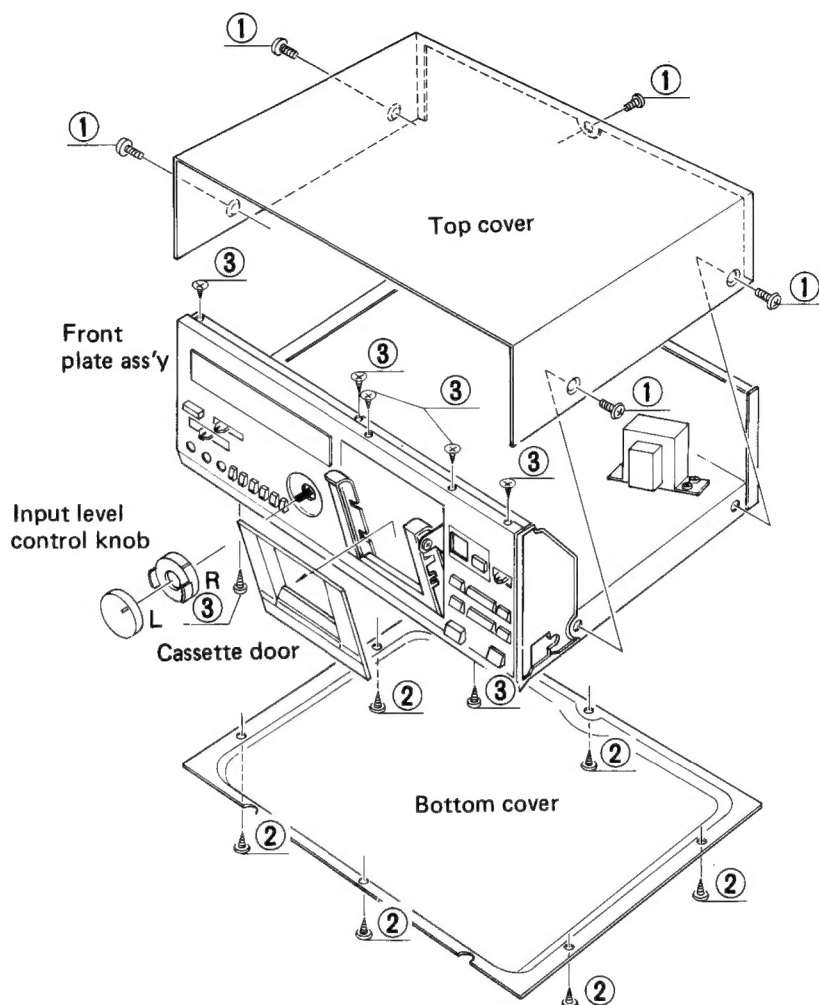


Fig. 8

ENCLOSURE ASSEMBLY PARTS

- **Cassette door**
Push the eject button to open the cassette door.
Slide off the cassette door upwards (about 5 mm) to unlock its pawls of both sides.
Remove the cassette door forward.
- **Input level control knobs** (Right channel & Left channel)
Pull off them forward.
- **Top cover**
Remove 5 screws ① (left and right 2 screws on each and rear center a screw).
- **Bottom cover**
Remove 6 screws ② fastening the bottom cover.
- **Front plate assembly**
Remove 5 screws ③ (blue 2 screws for the mechanical assembly, and other screws are under rubber cushions) on upper side and 2 screws on bottom side fastening the front plate assembly.

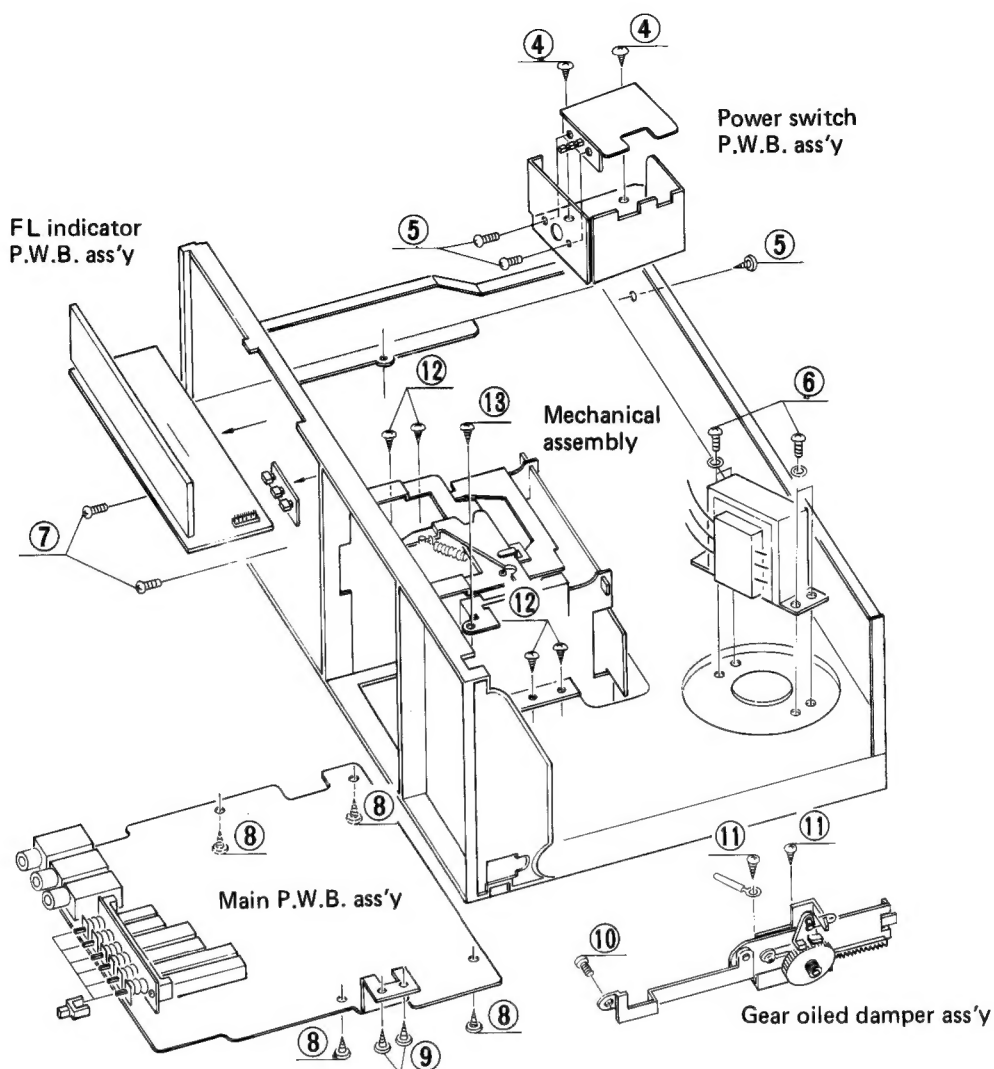


Fig. 9

ELECTRICAL PARTS

- **Power switch**
Remove 3 screws (4) fastening the switch bracket.
Remove 2 screws (5) fastening the power switch.
- **Power transformer**
Remove 4 screws (6) fastening the power transformer.
- **Main P.W.B. assembly**
 - 1) Remove 2 screws (7) fastening the switch.
 - 2) Remove 4 screws (8) fastening the main P.W. board.
 - 3) Remove 2 screws (9) fastening the heat sink plate for transistors.
 - 4) Remove 2 screws fastening the escutcheon for pin jacks.
 - 5) Remove 2 connectors (on the main P.W. board) of REC/PB head wires and erase head wires.
 - 6) Cut off 4 clamps (QHX2075-001) for wires.
- **FL P.W. board assembly**
After removing the front plate assembly, remove the connector of wires, and pull off them forwards.

Timer standby switch

- 1) Remove the timer switch knob.
- 2) Remove 2 screws, moving the bracket up or down.

MECHANICAL ASSEMBLY

- 1) Remove a screw (10) fastening the arm of gear-oiled damper (left side of cassette holder).
To remove the door brake relational parts, remove 2 screws (11) fastening the gear frame assembly.
- 2) Remove 4 screws (12) fastening the mecha. bracket to amp chassis. (Left and right 2 screws on each)
- 3) Remove a screw fastening the front panel.
- 4) Remove 3 wires from chassis.
- 5) Remove 5 connectors on the mecha. control P.W. board.

Mechanical section mounting

To mount the entire mechanical section, insert the tops (2 places) of the mounting bracket into the groove in the front bracket (molding).

Note: When the tops of the mounting bracket is placed in the lowest side of the front bracket, even if the screw is tightened, unstable mounting results.

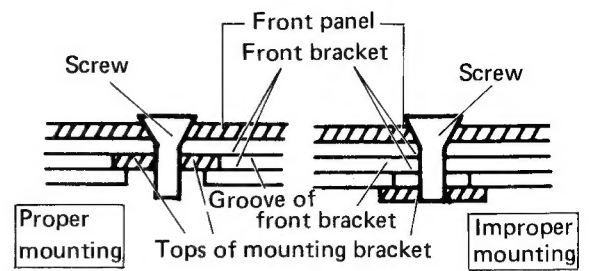


Fig. 10

MECHANICAL PARTS

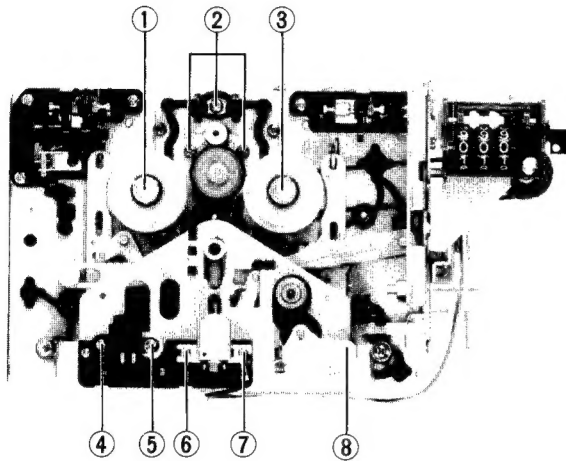


Fig. 11

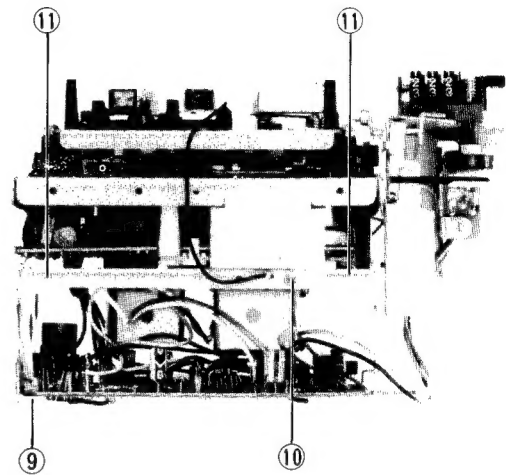


Fig. 12

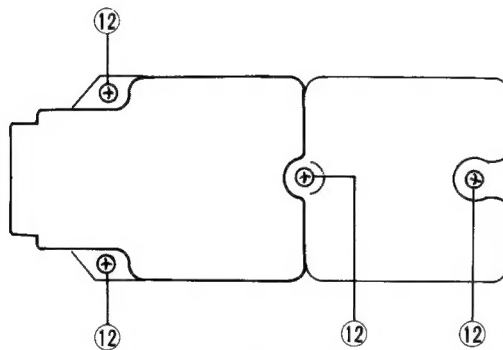


Fig. 13

1. Supply reel disc

Pull out the reel disc stopper ① and remove its disc from the shaft.

When assembling the reel disc, the stopper needs a new parts (the stopper cannot be used again).

2. Reel motor

- 1) Remove 3 screws ② fastening the reel motor.
- 2) Remove a screw fastening the shift arm.

3. Take-up reel disc

Pull out the reel disc stopper ③.

4. Erase head

- Remove a screw ④ for adjustment.
- Remove a screw ⑤.

5. REC/PB head

- Remove a screw ⑥ for adjustment.
- Remove a screw ⑦.

6. Pinch roller arm ass'y

- Remove an E-ring ⑧ holding its assembly.

7. Capstan motor assembly

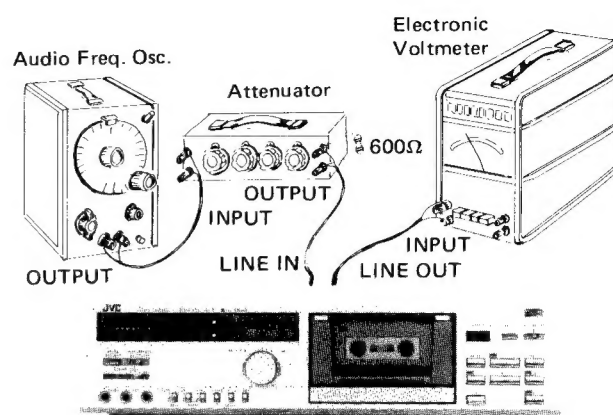
- 1) To remove the mecha. control P.W. board ass'y, remove a screw ⑨ fastening its assembly.
- 2) Remove a screw ⑩ fastening the earth lug (with removing the shield barcket).
- 3) Remove 4 screws ⑪ fastening the solenoid bracket.
- 4) Remove 4 screws ⑫ fastening the capstan motor assembly.

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator
(range: 50–20 kHz and output 0 dB with impedance 600 Ω)
- 3) Attenuator
- 4) Standard tapes for REC/PB
Maxell UD – SF tape -----
TDK SA – SA tape ----- } or equivalent
SCOTCH METAFINE – Metal tape -----
- 5) Reference tapes for playback (JVC Test Tape)
VTT-658 (for head azimuth adj.)
VTT-656A-S (for motor speed, wow flutter adj.)
VTT-664 (for Reference Level 1 kHz)
VTT-675N (for playback frequency response)
- 6) Resistors
600 Ω (for attenuator matching)



DD-5

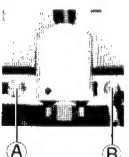
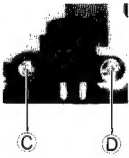
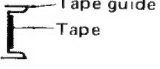
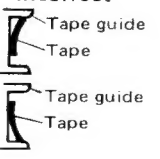
Fig. 14

2. Mechanical adjustment

- 1) Torque testing cassette gauge
- 2) Blank tape (C-120) for tape running checker

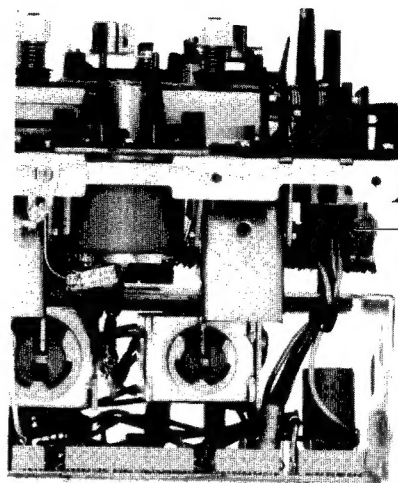
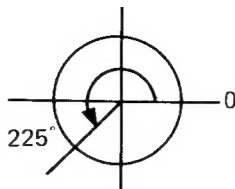
[II] Adjustment and repair of the mechanism

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/playback head position 	<ol style="list-style-type: none"> 1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT-658 test tape. 3. Adjust the head angle with the screw (A) until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond. 	Screw (A)	Maximum	If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3 – 4 dB, the head is defective. Replace it with a new one.
Adjusting erase head height 	Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw (C) until the tape runs in the center of the erase head tape guide. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Correct</p>  </div> <div style="text-align: center;"> <p>Incorrect</p>  </div> </div>	Screw (C)		Be sure to perform this adjustment after replacing the erase head.

Tape-to-head contact adjustment

- 1) Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 225° (a $5/8$ revolution).
- 2) Check the tape-to-head contact using a C-120 tape having pads.
- 3) Check it again with a Metal tape.
Checking method:
Record a 400 Hz or 1 kHz signal with 0 VU + 20 dB. Erase the recording. Checking if the erasing is satisfactorily performed.
- 4) After adjustment, apply screw bond on the adjusting screw to prevent its loosening.



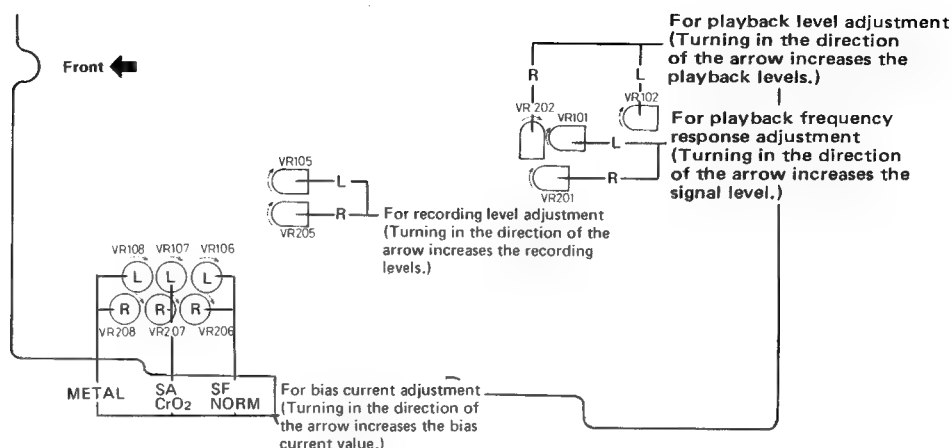
Semi-fixed resistor for motor speed adjustment

Fig. 15

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656A-S test tape. Adjust the semi-fixed resistor on the motor P.W. board until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor on the motor P.W. board	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking play-back torque	Employ a torque testing cassette tape for the checking.		40–70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, clean the capstan belt, motor pulley, flywheel circumference, left reel disc circumference, etc.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656A-S test tape. Check to see if the reading of the meter is within 0.03% (WRMS).			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.

[III] Adjustment location of electrical circuit

■ Main amp. P.W. board (Parts Ass'y side view)



■ FL P.W. board (Parts Ass'y side view)

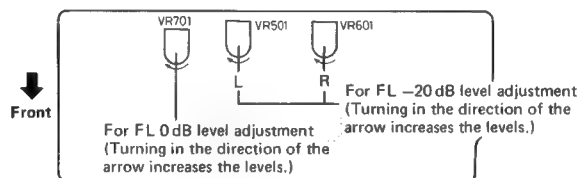


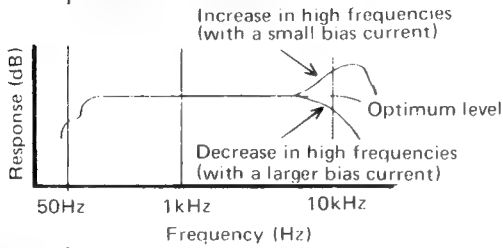
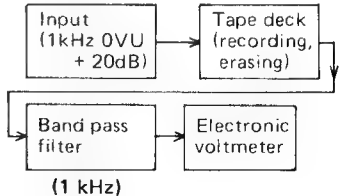
Fig. 16

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1, 2, 3, . . . Perform this adjustment with the ANRS switch set to OFF and output level control set to maximum.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1*	Adjusting playback level	1. Play back the VTT-664 Reference tape (1 kHz) with the tape select switch set to the SF/NORM position. 2. Adjust VR102 and VR202 until the LINE OUT becomes about -4 dBs.	VR102, 202	-4 dBs (0.5 V)	This adjustment becomes necessary when a change in playback level results (for example, due to head replacement).
2*	Playback frequency response	Playback test tape VTT-675N (1 kHz, 10 kHz) for following adjustment. 1) Adjust VR101 and VR201 so that 10 kHz signal and 1 kHz signal gains become flat response.	VR101, 201	Reference frequency; 1 kHz 0 ± 2 dB at 10 kHz	TAPE SELECT; SF/NORM
3*	FL (Fluorescence Level) indicator sensitivity	1) Make a short-circuit between the two check pins (HOLD-OFF) on the FL meter board using a clip or the like to cancel the peak-hold function. 2) Put the set into the record mode, then apply a 1 kHz signal of around -20 dB to the R-ch and L-ch of the LINE IN terminals. 3) Adjust the INPUT LEVEL control so that the output level at the LINE OUT terminals is -4 dB. 4) Adjust VR701 (0 VU ADJ) so that "0" dB lights on both R and L. At this time, "0" dB must go out on both R and L with the input ATT (attenuation) level lowered by 0.5 dB. 5) Lower the input ATT level by 20 dB. 6) Adjust VR501 (L-ch) and VR601 (R-ch) so that "-20" dB lights on both R and L. At this time, "-20" dB must go out on both R and L with the input ATT level lowered by 1 dB. 7) Repeat steps 4) - 6).	VR701 VR501, 601	0 VU -20 VU	This adjustment becomes necessary due to parts replacement.

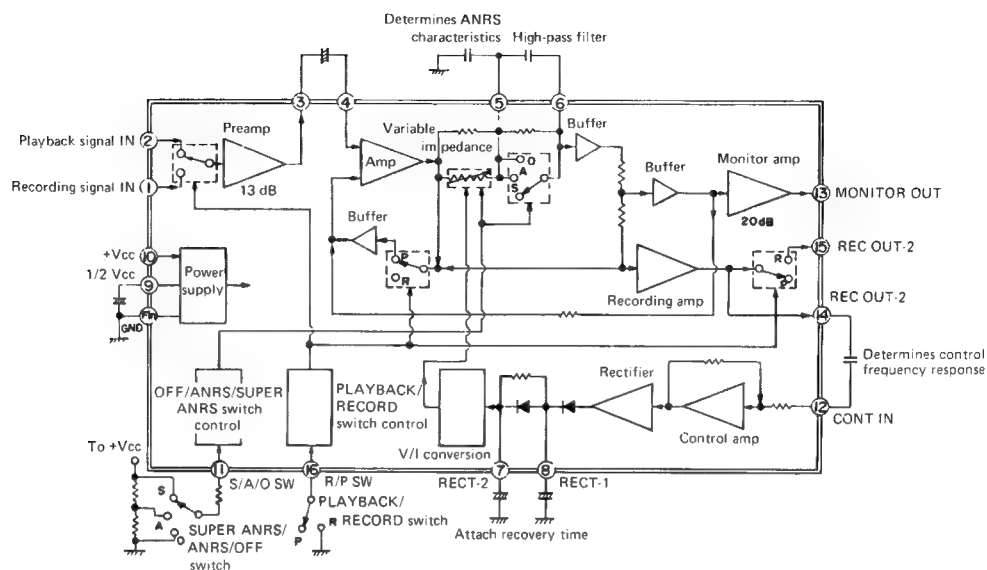
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
4*	Checking record/playback frequency response	<p>Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 VU to -20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference.</p> 	<p>For SF/NORM tape; VR106, 206 For SA/CrO₂ tape; VR107, 207 For Metal tape; VR108, 208</p>	<p>Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz</p>	<p>This checking should be performed for normal, chrome and metal tapes and for both right and left channels.</p> <ol style="list-style-type: none"> 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. The current measuring method described below is an alternative one. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
5	Adjusting recording level	<ol style="list-style-type: none"> 1. Apply a 1 kHz, approx. -10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -4 dBs at the LINE OUT terminals. 2. After checking to see if the FL indicator become 0, record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR105 and VR205 so that the FL indicator become 0. 	VR105, 205	0 VU	The level difference between left and right channels for SF/NORM tape, chrome tape and metal tape should be less than 1 dB (1 VU). Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO ₂ and metal tapes, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
6	Checking record/playback signal distortion	<ol style="list-style-type: none"> 1. Record a 1 kHz, -4 dBs signal to LINE IN terminals and perform recording with the FL indicator become 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. 		<p>SF/NORM tape; Less than 2.5% SA/CrO₂ tape; Less than 3% Metal tape; Less than 2%</p>	Be sure to perform this adjustment following bias current and recording level adjustments.
7	Checking signal to noise ratio in recording/playback	<ol style="list-style-type: none"> 1. Record a 1 kHz, 0 VU signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0VU recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. 		<p>SF/NORM, SA/CrO₂ and Metal tapes; More than 42 dB</p>	Apply an output (-72 dBs) to the MIC terminals with the recording level controls set to maximum so that the FL indicator become 0.
8	Checking erasing coefficient	<ol style="list-style-type: none"> 1. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the FL indicator become 0. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter. 		More than 65 dB	<p>For the measuring, connect a band pass filter between the deck and the electronic voltmeter.</p> 

Integrant Circuit

IC101 AN7362N
201

ANRS & Super ANRS

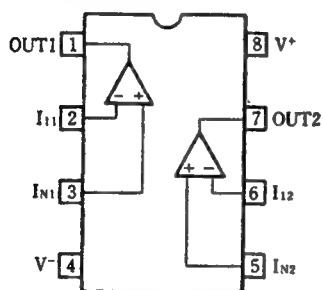
Block diagram



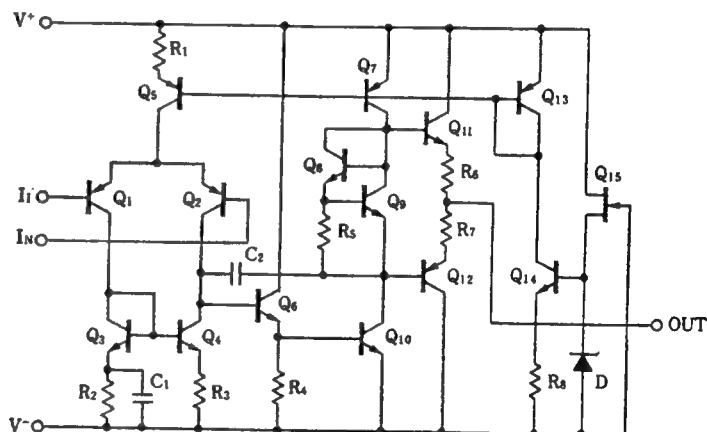
IC901 UPC4557C

Headphone & meter amp.

Top view

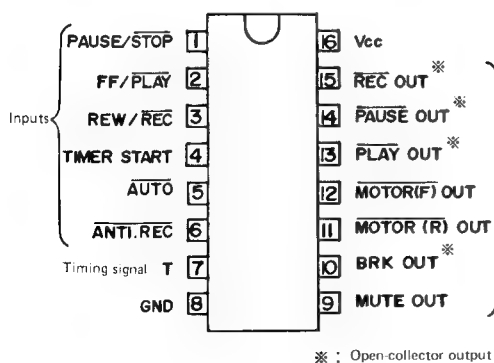


Equivalent circuit (1/2)



IC801 M54886P

Top view



Block diagram

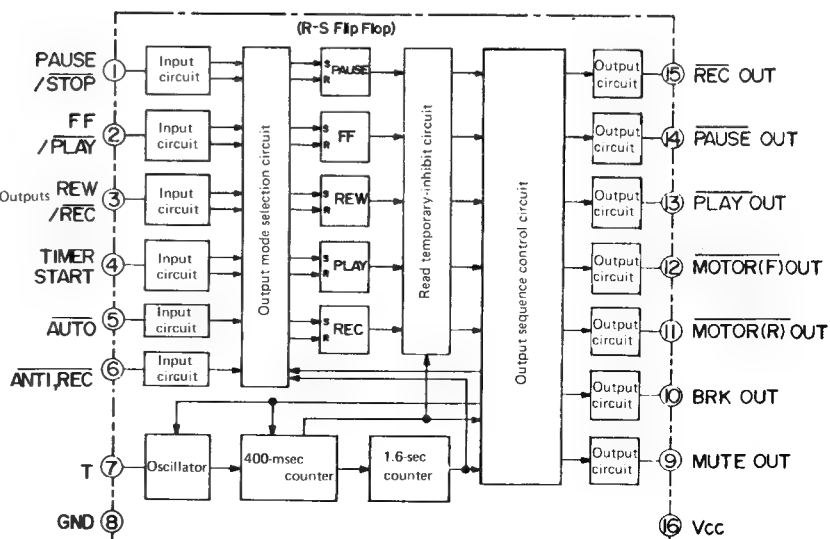


Fig. 17

AN6870

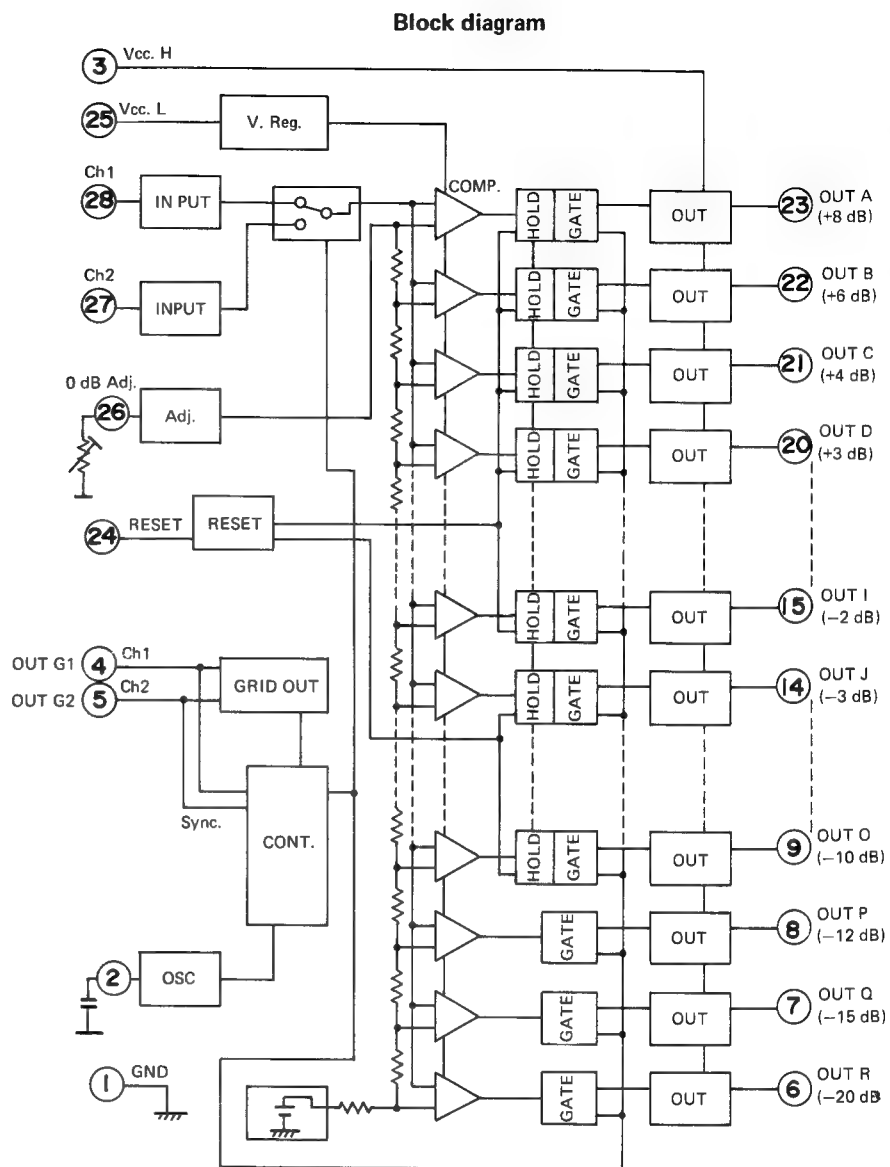
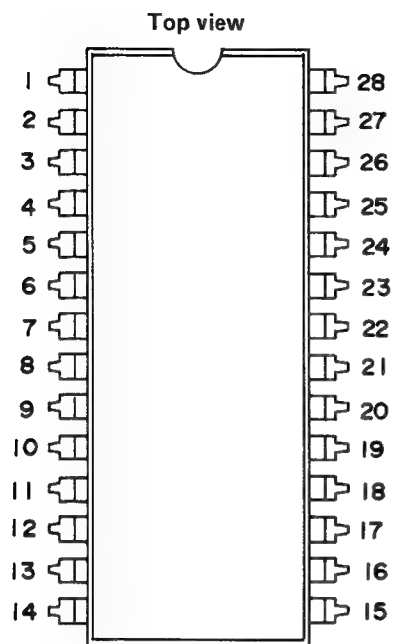


Fig. 18

Wiring Connection

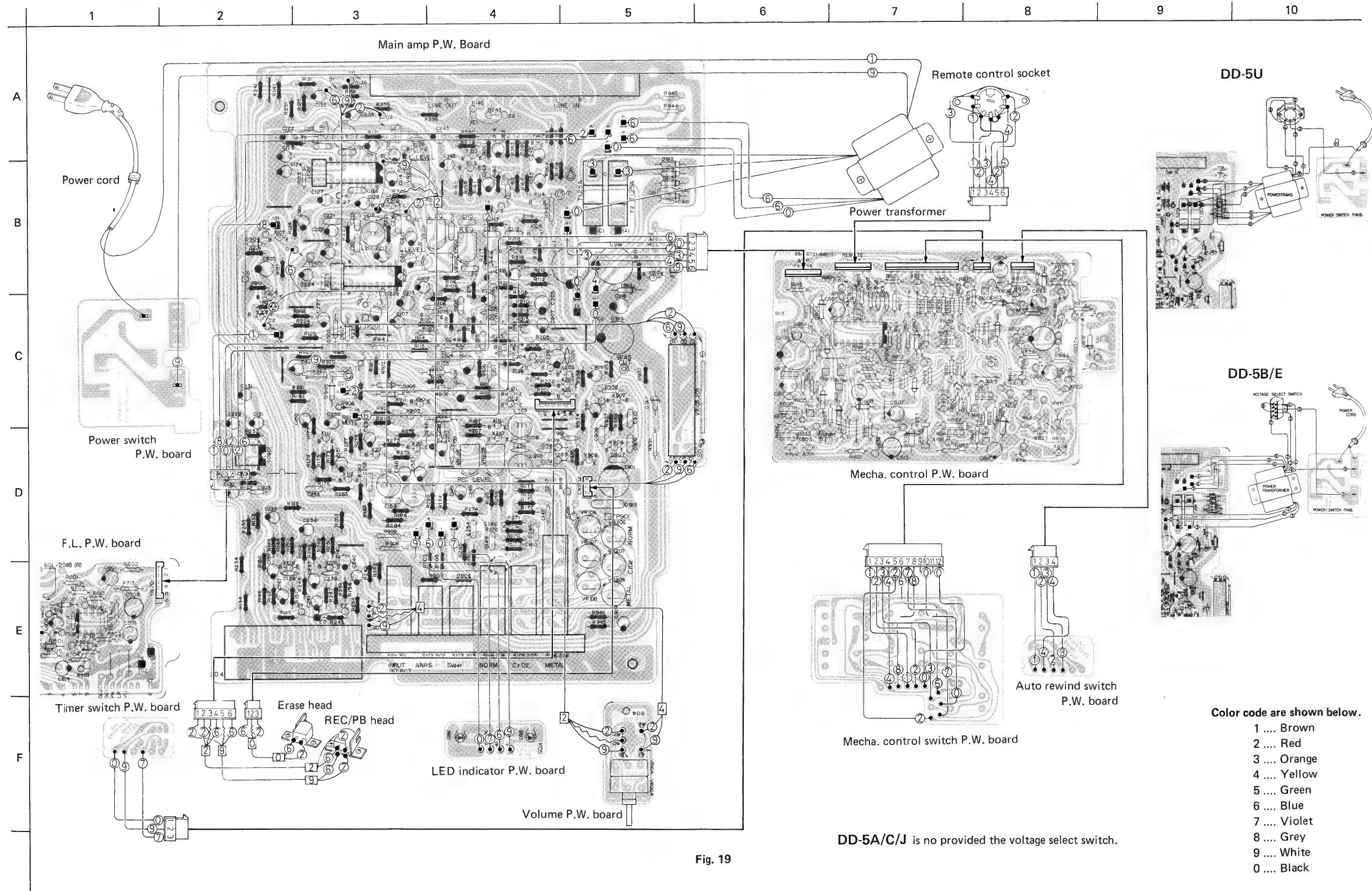
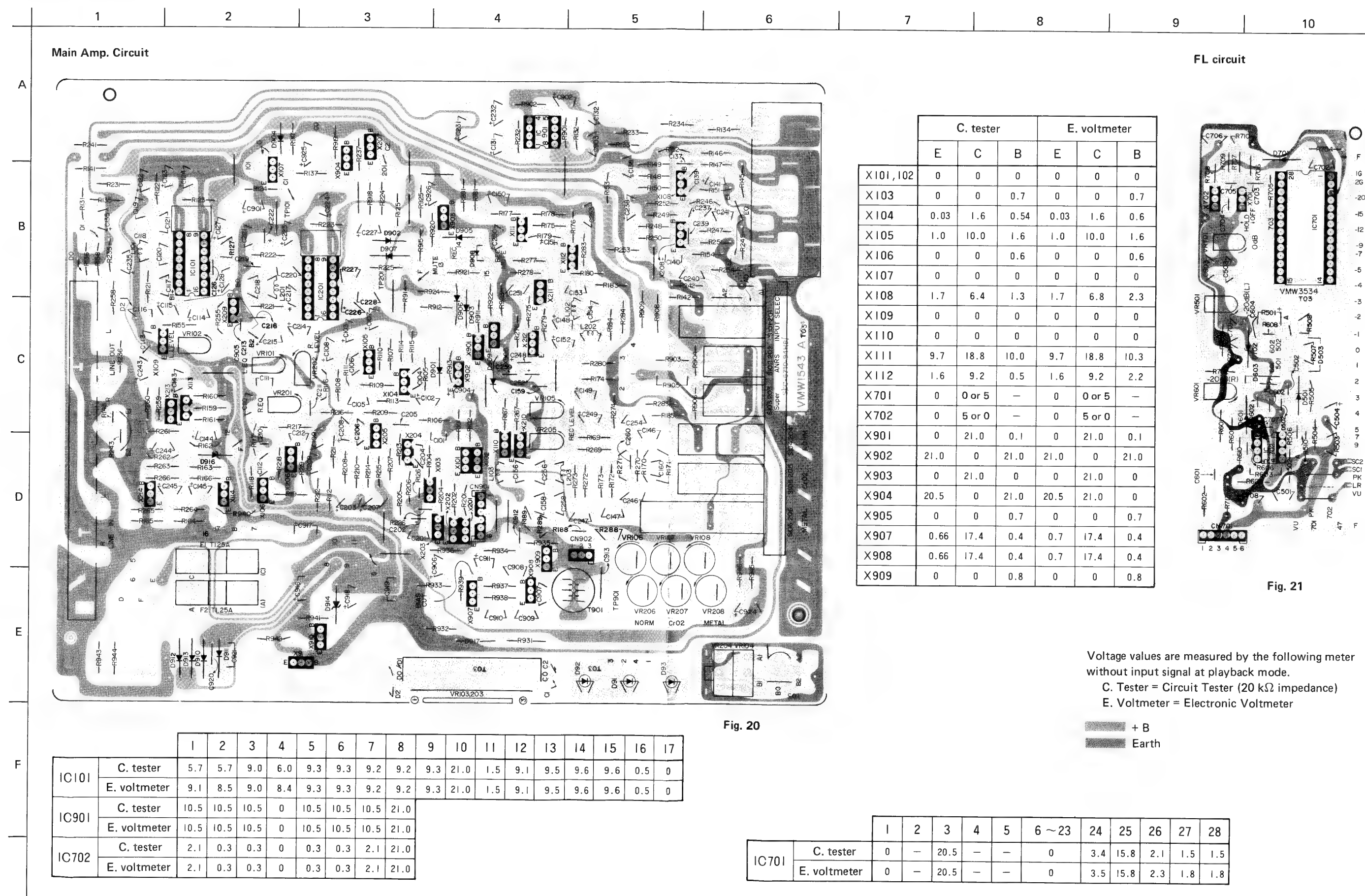
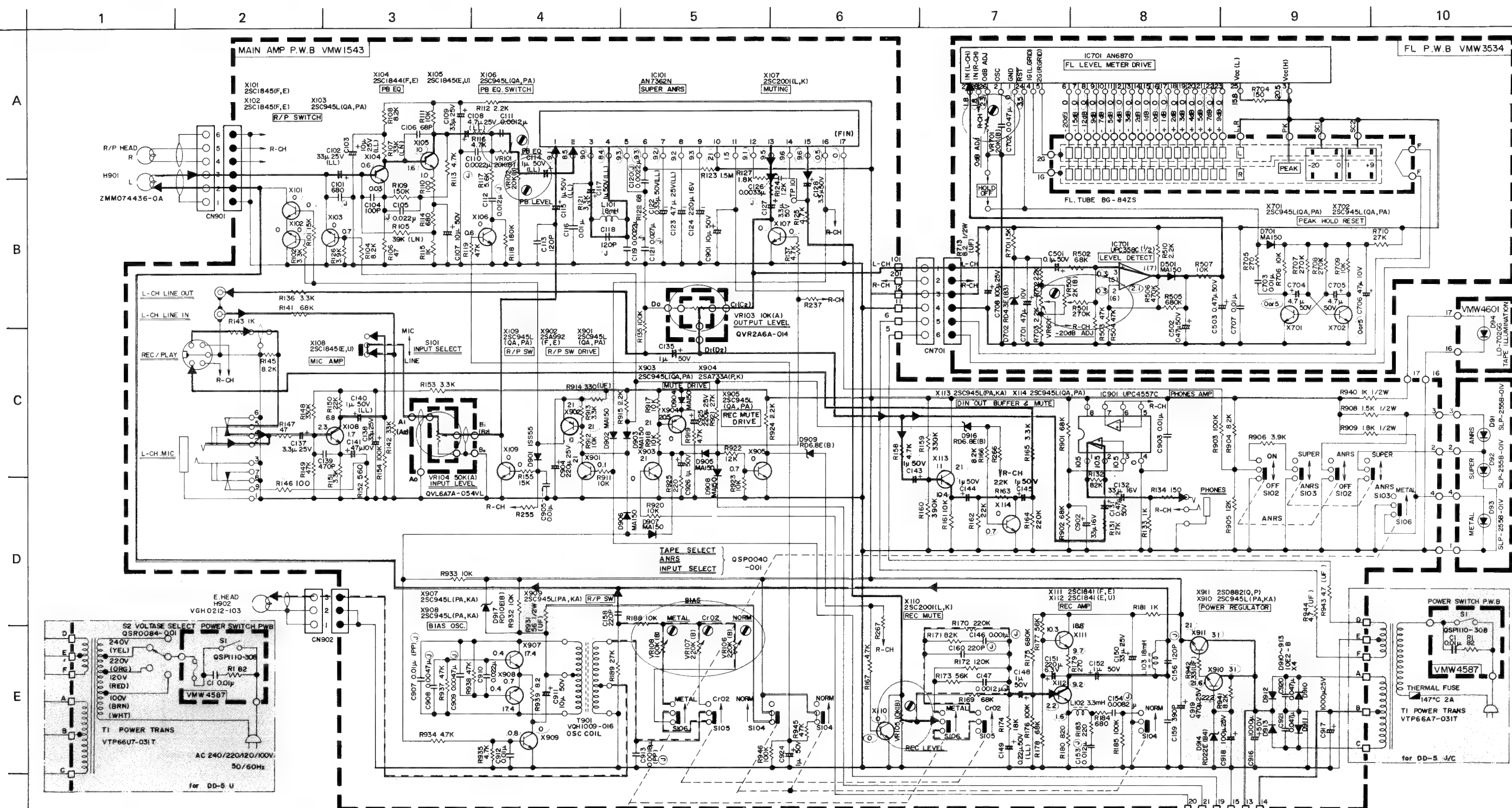


Fig. 19

P.W. Board Parts



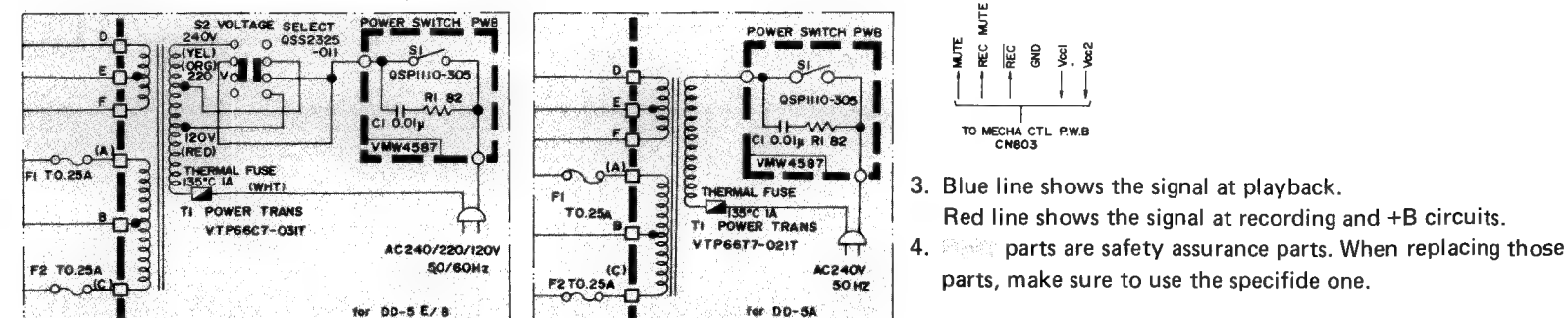
Standard Schematic Diagram of DD-5 (Amprifier Circuit)



NOTES:

- NOTES:
1. Unless otherwise specified, all resistors are 1/4 W, $\pm 5\%$ Carbon resistors,
And all capacitors are 50 V fixed ceramic capacitors or 50 V mylar capacitors.
 2. UF — Unflammable carbon resistor
OMF — Oxided metal film resistor
Ta — Tantalum solid electrolytic capacitor
LL — Low leak current electrolytic capacitor ($\pm 20\%$ tolerance)
PP — Polypropylene capacitor

Fig. 22



Standard Schematic Diagram of DD-5 (Mecha Control Circuit)

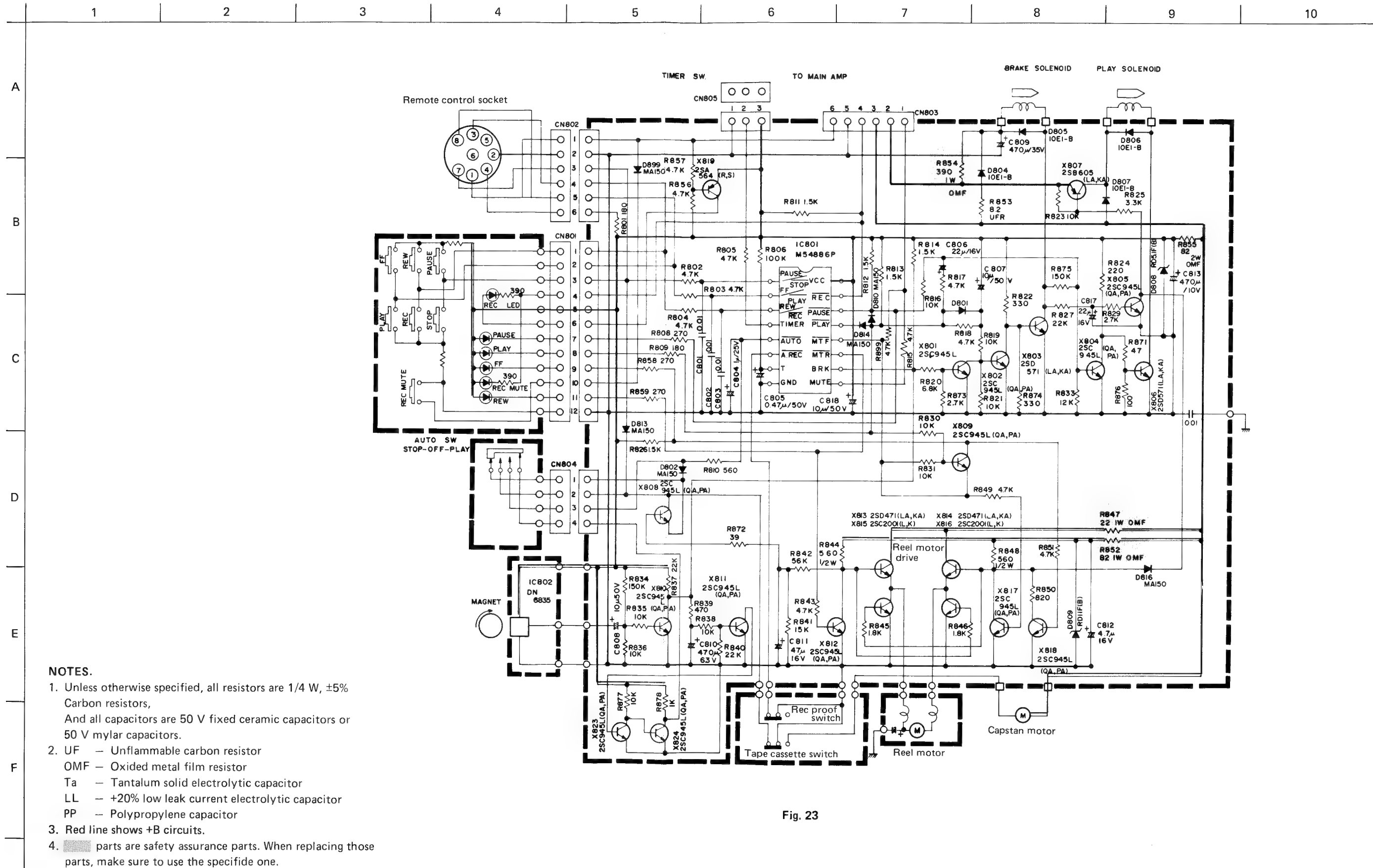
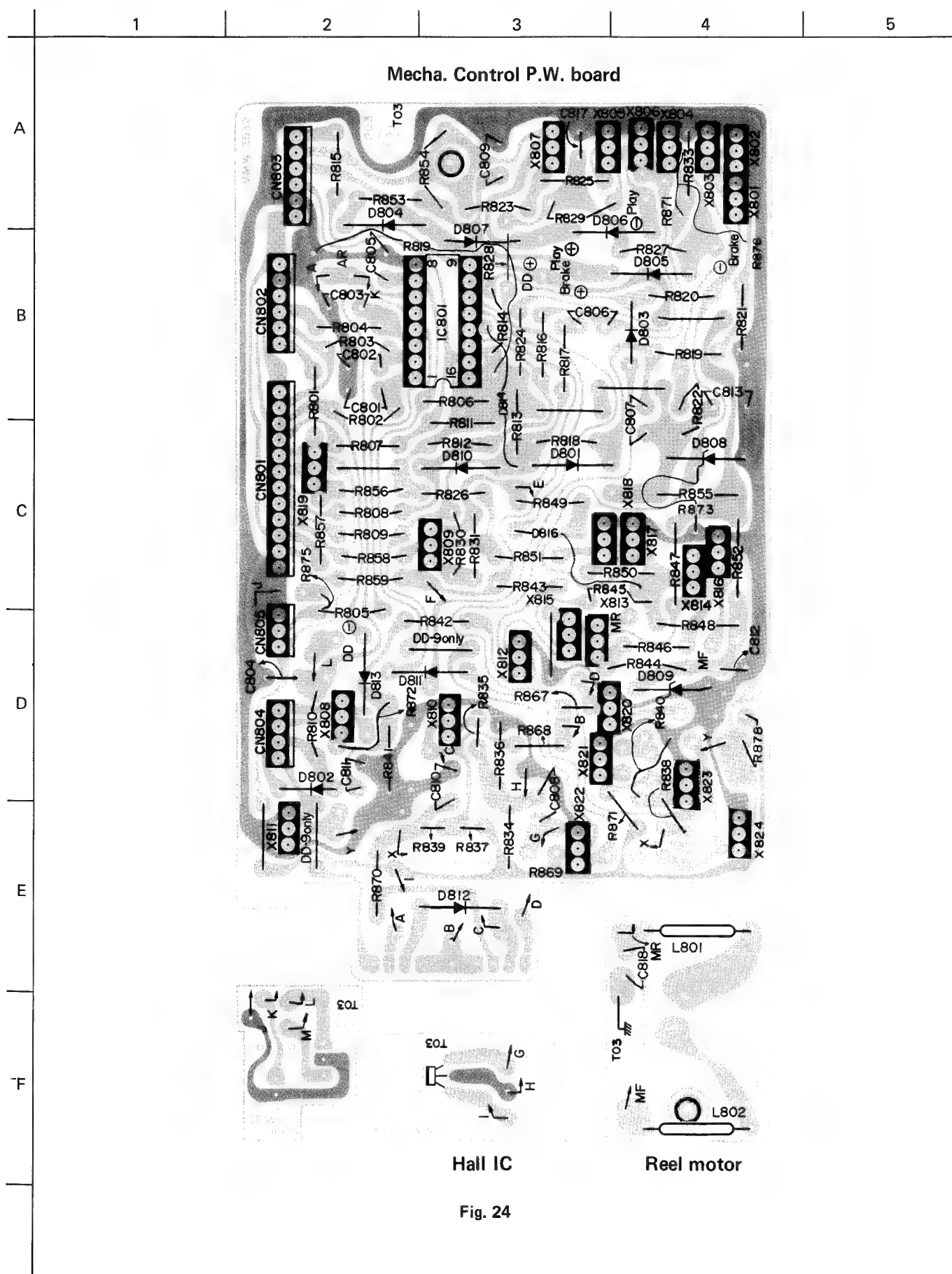


Fig. 23

Mecha. Control P.W. Board Parts



Hall IC

Reel motor

Fig. 24

Block Diagram

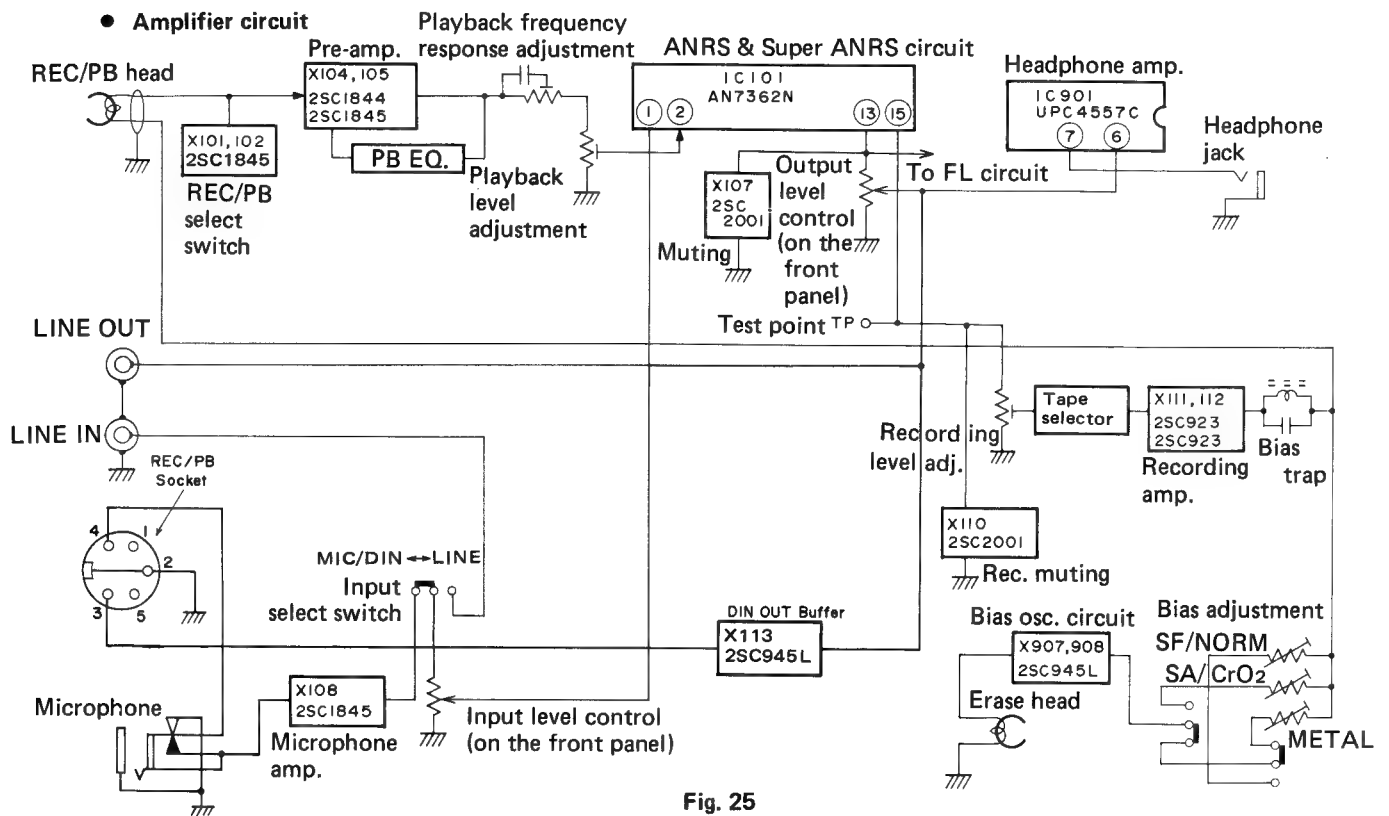


Fig. 25

• **Mechanical control circuit**

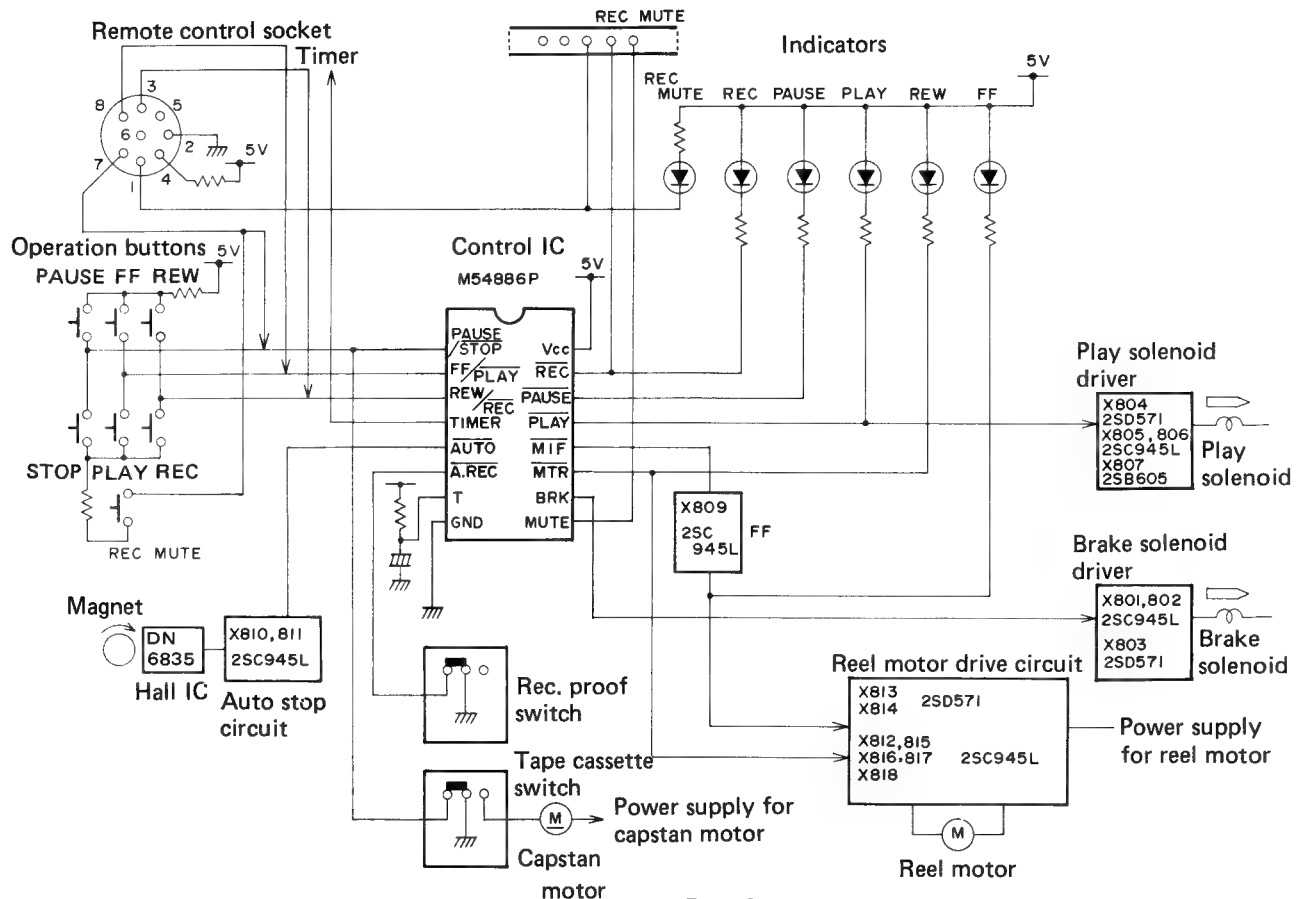
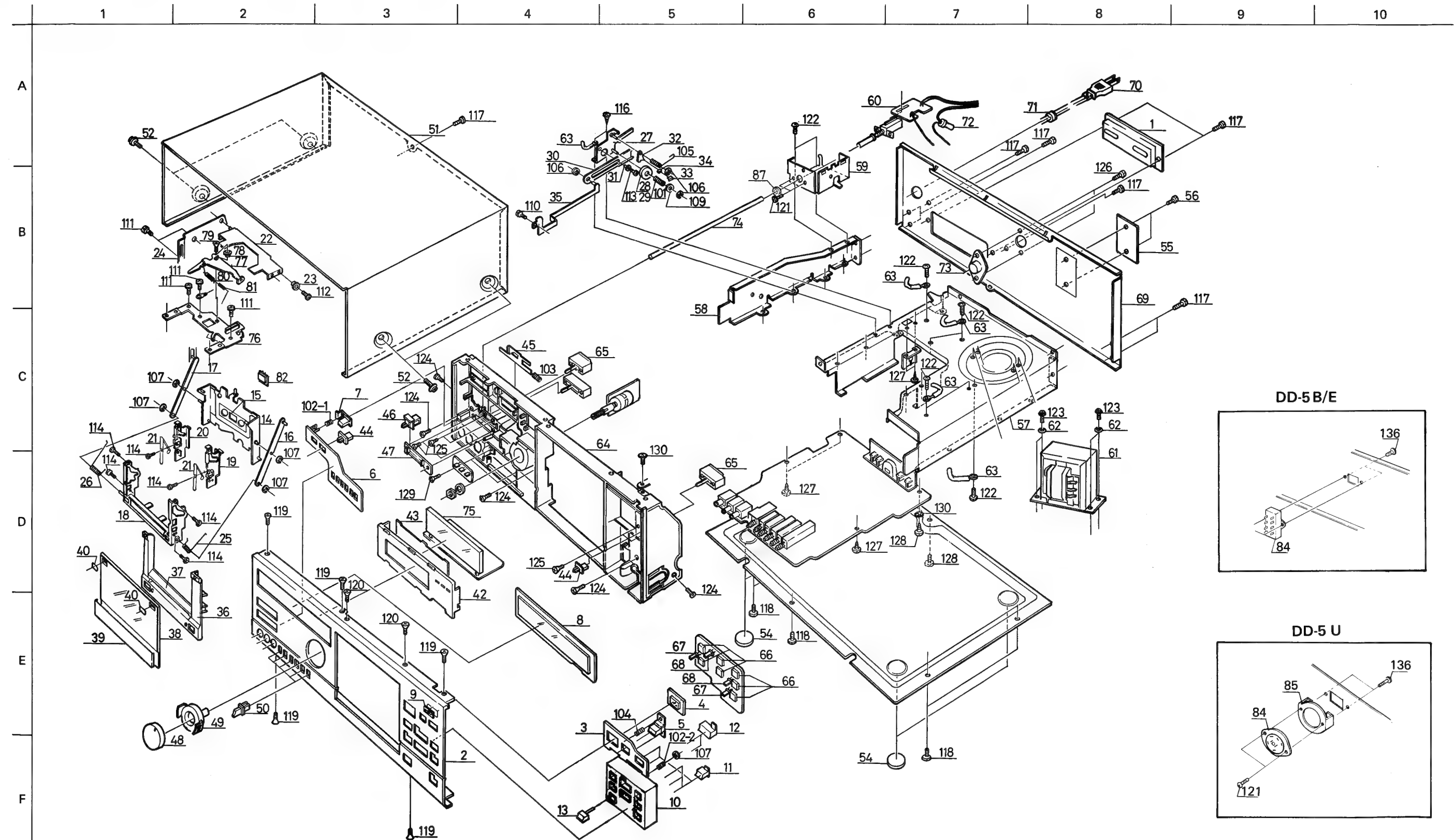


Fig. 26

Enclosure Ass'y and Electrical Parts (Except P.W. Board Parts)



DD-5 A/C/J is no provided the voltage select switch.

Fig. 27

Mechanical Component Parts

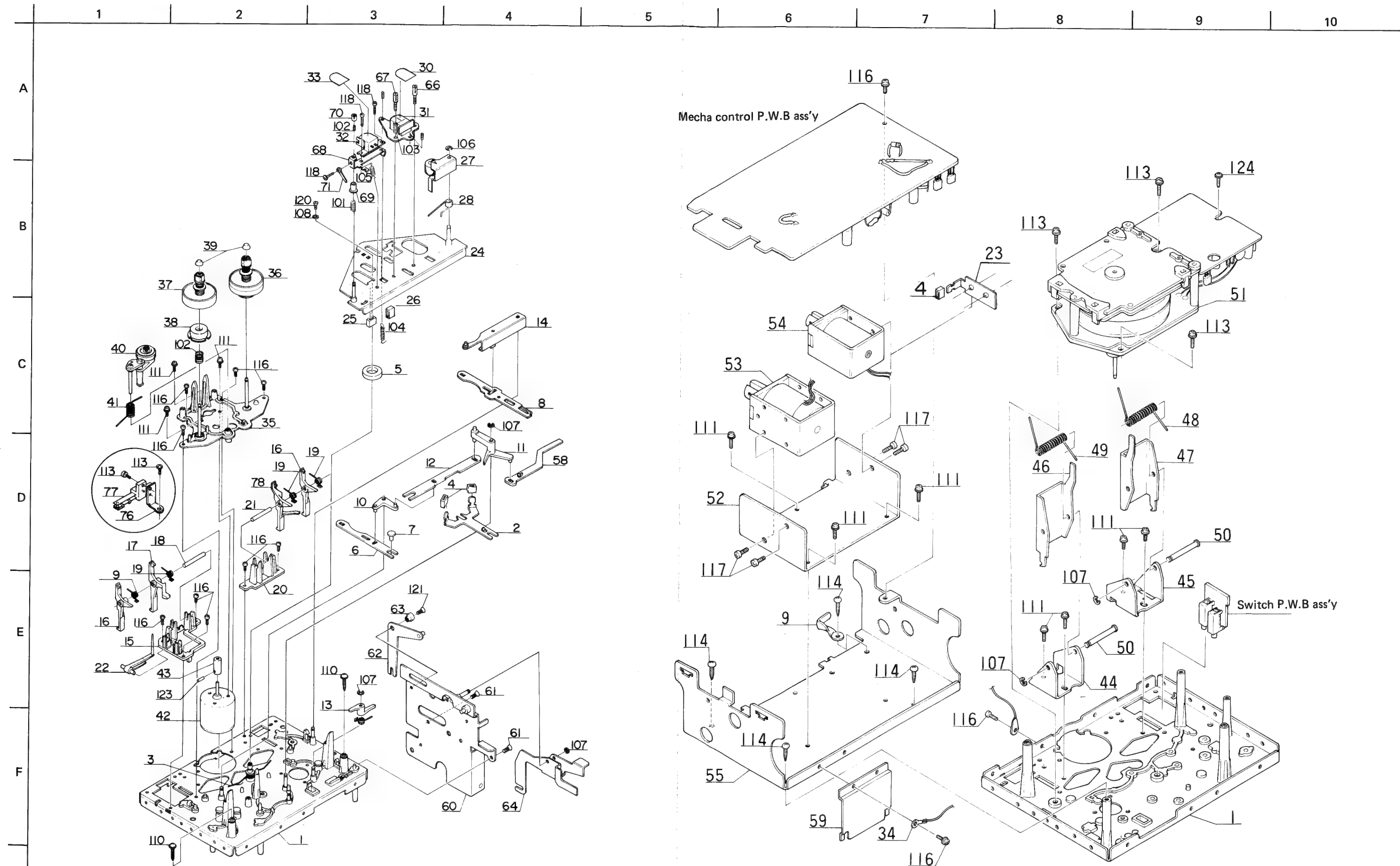


Fig. 28

**Enclosure Assembly and Electrical Parts List
(Except P.W. Board Parts)**

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1 (2-4,6,8,9)	VJD3213-002	Jack Escutcheon		1
	ZCDD-5Y-CBF	Front Plate Ass'y		1
2	VJC1130-004	Front Plate		1
3	VJD3234-002	Escutcheon		1
4	VJK4001-001	Counter Lens		1
5	VXP4083-001	Push Button	for Reset	1
6	VJD3234-001	Escutcheon		1
7	VXP4087-001	Push Button	for Power	1
8	VJD3239-001	Finder		1
9	VJD4432-002	DD Mark		1
10	VJD2162-001	Button Escutcheon		1
11	VXP4084-001	Push Button		5
12	VXP4085-001	"	Play, Button	2
13	VXP4086-00A	Push Button Ass'y	Eject	1
14	VJD3252-00A	Holder Plate Ass'y		1
15	VJD4437-002	Disc Plate		1
16	VKL4380-00A	Cross Bar Ass'y		1
17	VKL4844-00A	"		1
18	VKL4842-00B	Holder Bracket Ass'y		1
19	VJD3237-003	Tape Holder (R)	Right	1
20	VJD3238-003	" (L)	Left	1
21	VKY4218-001	Cassette Spring (L)	VKY4217-001(R)	1
22	VKL4403-00E	Shift Arm Ass'y		1
23	T43909-004	Metal		1
24	VKL4841-00A	Mecha. Bracket (L) Ass'y		1
25	VKW4250-005	Holder Spring		1
26	" -006	"		1
27	VKL4169-00A	Gear Frame Ass'y		1
28	VKS4236-001	Spur Gear		1
29	VKS4109-004	Brake Drum		1
30	VKS3102-001	Rack Plate		1
31	VKH4123-001	Collar		1
32	VKS4110-002	Brake Arm		1
33	VKL4271-001	Rubber Retainer		1
34	VKZ4111-001	Rubber Tire		1
35	VKL4847-00A	Arm Bracket Ass'y		1
36	VJT2049-001	Cassette Holder		1
37	VJT4035-001	Holder Plate		1
38	VJT3059-002	Cassette Lid		1
39	VJT4036-001	Lid Plate		1
40	VJT4037-001	Plate		2
42	VJD3235-002	Meter Escutcheon		1
43	VJK4131-001	Filter		1
44	VXS4041-001	Slide Knob	Timer & Memory	2
45	VKL4843-002	Bracket	Timer Safety	1
46	VXS3003-001	Slide Knob	Output	1
47	VJD4431-001	Blind		1
48	VXL4127-00A	Knob Ass'y	Input (L)	1
49	VXL4128-001	Volume Knob	" (R)	1
50	VXP4088-001	Push Button		6
51	VJC1132-001	Top Cover		1
52	VKZ3001-002	Special Screw		4
53	VJC1133-001	Bottom Cover		1
54	VJF4003-002	Foot		4

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
55		VYN2072-003KA	Name Plate	DD-5A	1
		" -002KA	"	DD-5B	1
		" -004KA	"	DD-5C	1
		" -005KA	"	DD-5E	1
		" -006KA	"	DD-5J	1
		" -007KA	"	DD-5U	1
56		E47829-002	Plastic Rivet		2
57		VKL1186-001	Amp. Chassis (R)		1
58		VKL3257-001	" (L)		1
59		VKL3258-001	Power Bracket	for Push Switch	1
60	△	QSP1110-305	Push Switch	DD-5A/E	1
	△	" -305BS	"	DD-5B	1
	△	" -308	"	DD-5C/J	1
	△	" -306	"	DD-5U	1
61	△	VTP66T7-021T	Power Transformer	DD-5A	1
	△	VTP66C7-031TBS	"	DD-5B	1
	△	VTP66A7-031T	"	DD-5C/J	1
	△	VTP66C7-031T	"	DD-5E	1
	△	VTP66U7-031T	"	DD-5U	1
62		WNS3000Z	Washer	Power Trans.	4
63		VKZ4001-011	Wire Holder		8
64		VJC1131-001	Front Panel		1
65		QSS2301-102	Slide Switch		1
66		QSP0021-002A	Tact Switch		7
67		SLP-155B-01V	LED	(Red) REC, REC MUTE	1
68		SLP-255B-01V	"	(Green) PLAY, PAUSE	1
69		VJC1134-003	Rear Panel	DD-5A/C/J	1
		" -002	"	DD-5B/E/U	1
70	△	QMP2560-200	Power Cord	DD-5A	1
	△	QMP9017-008BS	"	DD-5B	1
	△	QMP1200-200	"	DD-5C/J	1
	△	QMP3900-200	"	DD-5E	1
	△	QMP7600-200	"	DD-5U	1
71	△	QHS3876-162	Strain Relief	DD-5A/C/E/J/U	1
	△	" -162BS	"	DD-5B	1
73		QMC0888-008	DIN Socket	for Remote	1
74		VKS4003-004	Pipe		1
75		BG-84ZS	FL Tube		1
76		VKL3252-001	Bracket		1
77		VKL4839-00B	Lock Arm Ass'y		1
78		VKH3013-005	Collar		1
79		VKZ4143-002	Special Screw		1
80		VKW3002-043	Spring		2
81		TJN265559-04	Silencer		1
82		LD-702	LED		1
83		VKZ4001-010	Wire Holder		1
84		QSS2325-011BS	Voltage Select Switch	DD-5B	1
		" -011	"	DD-5E	1
		QSR0084-001	"	DD-5U	1
85		VKL4275-001	Bracket	DD-5U	1
86		VKC5139-002S	Counter Knob		1
87		VKW4277-001	Ring		1
89		VYSR102-017	Spacer		1
90		VYSR101-003	Ring	Front Plate	3

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
91		VYSH203-001	Spacer		7
92		VKZ4001-009	Wire Holder		1
93		VYSH115-005	Spacer		1
96		TAH000459-01	Mark	CN803	1
101		VKW3001-006	Spring		1
102-1		VKW4265-002	Button Spring		1
102-2		VKW3001-028	Compression Spring		1
103		" -057	"		1
104		" -058	"		1
105		VKW4106-001			
106		REE2000	"E" Ring	Brake Drum x 2, Arm Bracket Ass'y x 2	4
107		REE2500	"	Push Button Ass'y x 1, Flange Shaft x 2, Holder Spring x 2	5
108		Q03093-524	Washer		1
109		WNS2600Z	"		1
110		LPSP2604R	Screw	Arm Bracket Ass'y	1
111		VKZ4143-002	Special Screw	for Mecha. Bracket — Mecha. Chassis	2
112		LPSP2606Z	Screw		1
113		LPSP2608Z	"		1
114		SDSF2605R	"	Tape Holder (R) x 2, Tape Holder (L) x 2, Cassette Spring x 2	6
115		SSSB3008C	"	Mecha. — Amp. Chassis	2
116		SBSB3006Z	"		2
117		SDSB3008R	"	Top Cover x 1, Rear Panel x 6, Jack Escutcheon x 2	9
118		SDSB3008Z	"	Bottom Cover	6
119		SSSB3008Z	"	Front Plate — Front Panel	5
120		SSSP3006CS	"	Mecha. — Front Panel	2
121		LPSP3006ZS	"	Power Switch, Voltage Selector (DD-5U) x 1	2
122		SBSB3006Z	"	Power Bracket x 2, Wire Holder x 7	9
123		SDSC3008Z	"	Power Transformer	4
124		SSSB3006Z	"	Front Panel	5
125		SSSP2606Z	"	Slide Switch (Timer) x 2, Slide Switch (Memory) x 2	4
126		SDSP2605R	"	Remote	2
127		SBSB3006V	"	Heat Sink x 2, Main P.W.B. x 5	7
128		SBSB3008Z	"	P.W.B. Earth	1
129		SBSF2610Z	"	P.W. Board	3
130		SBSF3008C	"	Chassis Bracket — Front Panel	1
131		SSSP3008Z	"	Push Switch	2
132		WBS3000	Washer	P.W.B. Earth	1
133		Q03093-814	"		3
134		SDSB3008C	Screw	Mecha. — Amp. Chassis	2
135		LPSP2605Z	"	Bracket	2
136		SDSP3006RS	"	V. Select	2
137		SSSP2006Z	"	Output VR	2

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL1184-00A	Chassis Base Ass'y		1
2	VKL4823-001	Brake Bar		1
3	VKW4243-001	Brake Bar Spring		1
4	VKZ4129-001	Rubber Tire		2
5	VKZ4005-003	Stopper		1
6	VKL4824-001	Lock Plate (1)		1
7	VKS4233-001	Lock Bush		3
8	VKL4945-001	Slide Plate		1
9	VKL4944-001	Stopper		1
10	VKS4258-00B	Connecting Lever Ass'y		1
11	VKS4260-00B	Lock Lever Ass'y		1
12	VKL4827-001	Lock Plate (2)		1
13	VKS4262-001	Pause Lever		1
14	VKL4828-00A	Play Arm Ass'y		1
15	VKS2110-002	Switch Holder (L)		1
16	VKS4263-001	Pressure Lever		1
17	VKS4264-001	Switch Lever		1
18	VKH4264-001	Shaft		1
19	VKW4138-001	Pressure Lever Spring		1
20	VKS3125-001	Switch Holder (R)		1
21	VKH4196-001	Shaft		1
22	VKS4265-002	Cassette SW. Lever		1
24	VKL4830-00A	Slide Base Ass'y		1
25	VKZ4129-001	Rubber Tire		1
26	TJN265559-02	Silencer		1
27	VKP4113-00A	Pinch Roller Arm Ass'y		1
28	VKW4240-001	Pinch Roller Spring		1
29	VKS4266-001	Shift Lever		1
30	VKS2102-001	Head Mount Base		1
31	ZMM074436-0A	R/P Head Ass'y	Head Plate = THC037417-02	1
32	VGH0212-103	E. Head Ass'y	Head Label = THS000489-02	1
33	VKH4215-001	Head Collar		1
34	VMZ0008-00A	Wire Ass'y		1
35	VKL3155-00A	Reel Disk Bracket Ass'y		1
36	VKR4113-00C	Take-up Reel Ass'y		1
37	VKR4118-00B	Supply Reel Ass'y		1
38	VKW3001-026	Comp. Spring	Back Tension	1
39	VKS4131-002	Reel Stopper		2
40	VKS4151-00B	Idler Ass'y Unit		2
41	VKS4134-001	Idler Spring		1
42	MDN-7V1-3	Reel Motor		1
43	VKR4121-001	Motor Pulley		1
44	VKL4832-001	Shaft Holder		1
45	VKL4832-002	"		1
46	VKL4833-001	Solenoid Lever		1
47	VKL4833-002	"		1
48	VKW4241-001	Solenoid Lever Spring		1
49	VKW4241-002	"		1
50	VKH4292-001	Shaft		2
51	MC950A	DD Motor Ass'y		1
52	VKL4867-001	Solenoid Bracket		1
53	VGP0301-005	D.C. Solenoid Ass'y	Play	1
54	VGP0201-008	"	Lock	1
55	VKL3254-002	Holder Bracket		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	VKC5134-002S	Counter Ass'y		1
57	VKB3000-025	Counter Belt		1
58	VKL4912-002	Lock Bar		1
59	VKL4913-001	Flywheel Cover		1
60	VKL4835-00A	Mecha. Bracket (R) Ass'y		1
61	VKZ4143-002	Special Screw	Mecha. Bracket	3
62	VKL4836-00A	Eject Arm Ass'y		1
63	VKH3013-004	Flange Collar		1
64	VKL4838-003	Eject Lever		1
65	VKL4870-001	Counter Bracket		1
66	VMZ0008-00A	Wire Ass'y		1
67	QXT6100-020	Tube		2
68	VKW4241-002	Solenoid Lever Spring		1
69	51739-2	Lug		1
70	VKW4191-001	Pressure Lever Spring		1
71	VKS4263-001	Pressure Lever		1
72	VKW4138-001	Pressure Lever Spring		1
73	VKH4309-001	Collar		1
74	VKZ4001-011	Wire Holder		1
75	VKW4268-001	Lock Bar Spring		1
76	VYSR110-009	Spacer		1
77	VMZ0008-00A	Wire Ass'y		1
78	VKL4944-001	Stopper		1
79	VKZ4129-001	Rubber Tire		1
101	VKW3001-020	Comp. Spring		2
103	VKW3001-036	Comp. Spring		1
104	VKW3002-005	Spring	Slide Base	1
106	REE2000	"E" Ring		1
107	REE2500	"	Connecting Lever Ass'y x 1, Pause Lever x 1, Play Arm Ass'y x 1, Shaft x 2, Eject Lever x 1	6
108	WNS3000N	Washer		1
109	WSS2000N	"		1
110	GPSA2612Z	Tap. Screw	Slide Base	2
111	LPSP2604Z	Screw	Reel Motor x 3, Shaft Holder x 4, Solenoid Bracket x 3	10
112	LPSP2605Z	"	Counter Bracket	2
113	LPSP2606Z	"	DD Motor Ass'y	3
114	SBSB2608Z	"	Holder Bracket	4
115	SPSP2006Z	"	Head Mount Base	1
116	SPSP2606Z	"	Pressure Lever Spring x 5, Wire Ass'y x 1, Reel Ass'y Unit x 4, Flywheel Cover x 2	12
117	SPSP3004ZS	"	D.C. Solenoid Ass'y	4
118	SPSX2010N	"	Head	2
119	SPSX2014Z	"	E. Head	1
120	SSSK2650Z	Mini Screw	Slide Base	1
121	SSSP2605Z	Screw	Flange Collar	1
122	SPSP2606Z	"	Flywheel Cover	2
123	YRS2603B	"	Motor Pulley	1
124	GPSA2608Z	Tap. Screw	DD Motor	1
125	Q03095-206	Washer		1
126	SPSP2605Z	Screw		1
127	LPSP2010Z	"		1
128	SBSB2008Z	"		1

Main amp P.W.B Parts List

△ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	TA2000331-02	Fuse Holder	DD-5A/B/E/U	4
	OMF51A2-1R25	Fuse	DD-5A/E	2
	" -1R25BS	"	DD-5B	2
	—	"	DD-5U	2
	—	Fuse Seal	DD-5U	1
	VMW1543-102	P.W. Board		
R101, 201, 155, 255	QRD141J-153S	C. Resistor	15 kΩ ¼ W	4
R102, 202, 121, 221, 136, 236, 151, 251, 153, 253, 165, 265, 913	" -332S	"	3.3 kΩ "	13
R104, 204, 108, 208, 145, 245, 166, 266, 904, 941	" -822S	"	8.2 kΩ "	10
R105, 205	" -393SL	" (Low Noise)	39 kΩ "	2
R106, 206, 147, 247	" -470S	"	47 Ω "	4
R107, 207	" -333SL	" (Low Noise)	33 kΩ "	2
R109, 209	" -154S	"	150 kΩ "	2
R110, 210	" -101S	"	100 Ω "	2
R111, 211, 161, 261, 901, 902, 917, 918, 920, 923, 932, 933	" -103S	"	10 kΩ "	12
R112, 212, 163, 263, 915, 924	" -222S	"	2.2 kΩ "	6
R113, 213, 116, 216, 137, 125, 225, 237, 158, 258, 167, 267, 919, 934, 935	" -472S	"	4.7 kΩ "	15
R114, 214, 184, 284	" -681S	"	680 Ω "	4
R115, 215, 133, 233, 143, 243, 181, 281	" -102S	"	10 kΩ "	8
R117, 217	QRD147J-562S	"	5.6 kΩ "	2
R118, 218	QRD141J-184S	"	180 kΩ "	2
R119, 219, 149, 249, 937, 938, 945	" -473S	"	47 kΩ "	7
R122, 222	QRD147J-680S	"	68 Ω "	2
R123, 223	" -155S	"	1.5 MΩ "	2
R124, 224	" -122S	"	1.2 kΩ "	2
R126, 226	QRD143J-392S	"	3.9 kΩ "	2
R127, 227	" -182S	"	1.8 kΩ "	2
R131, 189, 289, 921	QRD147J-273S	"	27 kΩ "	4
R132, 232, 171, 271	QRD141J-823S	"	82 kΩ "	4
R134, 234	" -151S	"	150 Ω "	2
R135, 235, 154, 254, 176, 276, 185, 285, 903, 946	" -104S	"	100 kΩ "	10
R141, 241, 169, 269, 178, 278, 901, 902	" -683S	"	68 kΩ "	8
R142, 242	" -333S	"	33 kΩ "	2
R146, 246	" -101S	"	100 Ω "	2
R148, 248, 159, 259	" -334S	"	330 kΩ "	4
R150, 250, 162, 262	" -223S	"	22 kΩ "	4
R152, 252	" -561S	"	560 Ω "	2
R160, 260	" -394S	"	390 kΩ "	2
R164, 264, 170, 270	" -224S	"	220 kΩ "	4
R172, 272	" -124S	"	120 kΩ "	2
R173, 273, 177, 277	" -563S	"	56 kΩ "	4
R174, 274	" -183S	"	18 kΩ "	2
R175, 275	" -684S	"	680 kΩ "	2
R179, 279	" -271S	"	270 Ω "	2
R180, 280	" -821S	"	820 Ω "	2
R183, 283, 925	" -221S	"	220 Ω "	3
R188, 288	QRD143J-103S	"	10 kΩ "	2
R231	QRD141J-273S	"	27 kΩ "	1
R905, 922	QRD147J-123S	"	12 kΩ "	2
R906	QRD141J-392S	"	3.9 kΩ "	1
R908	QRD121K-152	"	1.5 kΩ ½ W	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R909	QRD121K-182	C. Resistor	1.8 k Ω ½ W	1
R914	QRD149J-331S	"	330 Ω ¼ W	1
R931	QRD126K-560	"	56 Ω ½ W	1
R939	QRD147J-8R2S	"	8.2 Ω ¼ W	1
R940	QRD121K-102	"	1 k Ω ½ W	1
R942	QRD149J-330S	Fail Safe C. Resistor	33 Ω ¼ W	1
R943, 944	" -4R7S	"	4.7 Ω "	2
VR101, 201, 102, 202,	QVP8A0B-024	V. Resistor	20 k Ω	4
VR103, 203	QVR2A6A-014	"	10 k Ω	2
VR104, 204	QVL6A7A-054VL	"	50 k Ω	2
VR105, 205	QVP8A0B-014	"	10 k Ω	2
VR106, 206, 107, 207	QVP4A0B-224	"	220 k Ω	4
VR108, 208	" -104	"	100 k Ω	2
	TAZ336499-04	Volume Rug	Input VR	1
C101, 201	QCS31HJ-681Z	C. Capacitor	680 pF 50 V	2
C102, 202	QEB41EM-336M	E. Capacitor (Low Leak)	33 μ F 25 V	2
C103, 203	" -106M	"	10 μ F "	2
C104, 204	QCS31HK-101Z	C. Capacitor	100 pF 50 V	2
C105, 205, 910	QFM31HJ-223Z	M. Capacitor	0.022 μ F "	3
C106, 206	QCS31HK-680Z	C. Capacitor	68 pF "	2
C107, 207, 901, 911	QET61HR-106ZM	E. Capacitor	10 μ F "	4
C108, 208, 123, 223	QEB41EM-475M	E. Capacitor (Low Leak)	4.7 μ F 25 V	4
C109, 209, 138, 238,	QET61ER-336ZM	E. Capacitor	33 μ F "	6
150, 250				
C110, 210, 120, 220	QFM31HJ-222Z	M. Capacitor	0.0022 μ F 50 V	4
C111, 211, 147, 247	" -122Z	"	0.0012 μ F "	4
C112, 212, 153, 253	" -123Z	"	0.012 μ F "	4
C113, 213	QCS11HK-121	C. Capacitor	120 pF "	2
C114, 214, 115, 215,	QEB41HM-105M	E. Capacitor	1 μ F "	6
117, 217				
C116, 216	QFM41HK-103	M. Capacitor	0.01 μ F "	2
C118, 218	QCS31HJ-121Z	C. Capacitor	120 pF "	2
C119, 219	QFM41HJ-222	M. Capacitor	0.0022 μ F "	2
C121, 221	" -273	"	0.027 μ F "	2
C122, 222	QEB41HM-334M	E. Capacitor	0.33 μ F "	2
C124, 224	QET41CR-227N	"	220 μ F 16 V	2
C126	QFM31HJ-332Z	M. Capacitor	0.0033 μ F 50 V	1
C127, 227, 128, 228	QET61HR-335ZM	E. Capacitor	3.3 μ F "	4
C131, 231	" -474ZM	"	0.47 μ F "	2
C132, 232, 902	QET61CR-336ZM	"	33 μ F 16 V	3
C135, 235, 152, 252,	QET61HR-105ZM	"	1 μ F 50 V	6
924, 926				
C137, 237	QEB41EM-335M	"	3.3 μ F 25 V	2
C139, 239	QCS31HK-471Z	C. Capacitor	470 pF 50 V	2
C140, 240	QEB41EM-105M	E. Capacitor	1 μ F 25 V	2
C141, 241	QET61AR-476ZM	"	47 μ F 10 V	2
C143, 243, 144, 244,	QET41HR-105N	"	1 μ F 50 V	8
145, 245, 148, 248				
C146, 246	QFM31HJ-102Z	M. Capacitor	0.001 μ F "	2
C149, 249	QEB41HM-224M	E. Capacitor (Low Leak)	0.22 μ F "	2
C151, 251	QET40JR-227N	E. Capacitor	220 μ F 6.3 V	2
C154, 254	QFM31HJ-822Z	M. Capacitor	0.0082 μ F 50 V	2
C156, 256	QCS12HJ-121	C. Capacitor	120 pF 500 V	2
C158, 258	QCS11HK-221	"	220 pF 50 V	2
C159, 259	QCS11HJ-391	"	390 pF "	2
C160, 260	" -221	"	220 pF "	2
C226	QFM41HJ-332	M. Capacitor	0.0033 μ F "	1
C903, 905, 912	QCF11HP-103	C. Capacitor	0.01 μ F "	3
C904, 925	QET41ER-227N	E. Capacitor	220 μ F 25 V	2
C907	QFP82AJ-103	P.P. Capacitor	0.01 μ F 100 V	1
C908, 909	QFM31HJ-472Z	M. Capacitor	0.0047 μ F 50 V	2
C912	QCF11HP-103	C. Capacitor	0.01 μ F "	1
C913	QFP82XJ-182	P.P. Capacitor	0.0018 μ F "	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
C916, 917	⚠	QET41HR-108N	E. Capacitor	1000 μ F 50 V	2
C918		QET41ER-107N	"	100 μ F 25 V	1
C919		" -477N	"	470 μ F "	1
C920, 921		QCY12HK-472K	C. Capacitor	0.0047 μ F 100 V	1
C927		QET40JR-107N	E. Capacitor	100 μ F 6.3 V	1
D901		1SS55	Diode		1
D902-908		MA150	"		7
D909, 916		RD6.8E(B)	Zener Diode		2
D910-913		10E2-B	"		4
D914		RD22E(B4)	"		1
D917		RD10E(B)	"		1
		SLP-255B-01N	LED	Green	3
X101, 201, 102, 202		2SC1845	Transistor		4
X103, 203, 106, 206, 109, 209, 114, 214, 901, 903, 905		2SC945L(QA, PA)	"		11
X104, 204		2SC1844(F, E)	"		2
X105, 205, 108, 208		2SC1845(E, U)	"	or 2SC1843(F, E)	4
X107, 207, 110, 210		2SC2001(L, K)	"	or 2SD1020(JHPE)	4
X111, 211		2SC1841(F, E)	"		2
X112, 212		2SC1841(E, U)	"		2
X113, 213, 907, 908		2SC945L(PA, KA)	"		4
X902		2SA992(F, E)	"		1
X904		2SA733A(P, K)	"		1
X909, 910	⚠	2SC945L(PA, KA)	"		2
X911	⚠	2SD882(Q, P)	"		1
IC101, 201		AN7362N	Integrated Circuit		2
IC901		UPC4557C	"		1
L101, 201		VQP0001-183S	Inductor		2
L102, 202		" -332M	"		2
L103, 203		" -183S	"		2
T901		VQH1009-016	Osc. Coil		1
		VYH4514-002	Shield Case	for T901	1
		QSP0040-001	Push Switch		1
		VMJ5004-002	Jack Ass'y	MIC & HP	1
		VMJ6003-002	"	PIN & DIN	1
		QMV5005-006	Plug Ass'y	R/P Head	1
		" -003	"	E. Head	1
		VKL4940-001	Shield Plate		1
		VKL4888-001	Heat Sink	for X911	1
		DPSP3008ZS	Screw	"	1
		E43727-002	Wrapping Tab		25
		VMZ0005-001	Post Pin		4
		V44611-005	Formed Bus Wire	12.5 mm	1
		QWY123-019	Bus Wire		17

Mecha. Control P.W.B. Parts List

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
R801, 809		VMW3532-101	P.W. Board		1
R802-805,815,817,818, 843,849,851,856,857		QRD147J-181S	C. Resistor	180 Ω $\frac{1}{4}$ W	2
R806		" -472S	"	4.7 k Ω "	12
R807		" -104S	"	100 k Ω "	1
		V44611-008	Formed Bus Wire		1
R808		QRD147J-271S	C. Resistor	270 Ω $\frac{1}{4}$ W	1
R810		" -561S	"	560 Ω "	1
R811-814, 826		" -152S	"	1.5 k Ω "	5
R816, 819, 821, 823, 830, 831, 836, 838		" -103S	"	10 k Ω "	7
R820		" -682S	"	6.8 k Ω "	1
R822, 874		QRD143J-331S	"	330 Ω "	1
R824		QRD147J-221S	"	220 Ω "	1
R825		" -332S	"	3.3 k Ω "	1
R827, 837, 840		" -223S	"	22 k Ω "	3
R829		" -272S	"	2.7 k Ω "	1
R833		" -123S	"	12 k Ω "	1
R834		" -123S	"	12 k Ω "	1
R835, 877		QRD143J-103S	"	10 k Ω "	2
R837		" -223S	"	22 k Ω "	1
R839		" -471S	"	470 Ω "	1
R841		QRD147J-153S	"	15 k Ω "	1
R842		" -563S	"	56 k Ω "	1
R844, 848		QRD121K-561	"	560 Ω "	2
R845, 846		QRD147J-182S	"	1.8 k Ω "	2
R847	⚠	QRG019J-220	O.M.F. Resistor	22 Ω 1 W	1
R850	⚠	QRD147J-821S	C. Resistor	820 Ω $\frac{1}{4}$ W	1
R852	⚠	QRG019J-820	O.M.F. Resistor	82 Ω 1 W	1
R853	⚠	QRD126J-220	Fail Safe C. Resistor	22 Ω $\frac{1}{2}$ W	1
R854	⚠	QRG019J-391	O.M.F. Resistor	390 Ω 1 W	1
R855	⚠	QRG029J-101	"	100 Ω 2 W	1
R872		QRD143J-390S	C. Resistor	39 Ω $\frac{1}{4}$ W	1
R873		QRD141J-272S	"	270 Ω "	1
R875		QRD143J-154S	"	150 k Ω "	1
R876		" -101S	"	100 Ω "	1
		V44611-008	Formed Bus Wire		7
C801, 802, 803		QCF11HP-103	C. Capacitor	0.01 μ F 50 V	3
C804		QET41HR-105N	E. Capacitor	1 μ F "	1
C805		QEB41HM-474M	E. Capacitor (Low Leak)	0.47 μ F "	1
C806, 817		QET41CR-226N	E. Capacitor	22 μ F 16 V	2
C807, 808, 819		QET41HR-106N	"	10 μ F 50 V	3
C809		QET41VR-477N	"	470 μ F 35 V	1
C810, 813		QET40JR-477N	"	470 μ F 6.3 V	2
C811, 812		QET41CR-476N	"	47 μ F 16 V	2
C818		QCF11HP-103	C. Capacitor	0.01 μ F 50 V	1
D801-803, 810, 813, 814, 816		MA150	Si. Diode		7
D804-807		10E1-B	"		4
D808		RD5.1F(B)	Zener Diode		1
D809		RD11F(B)	"		1
X801,802,804,805,808, 809,810,811,812,817, 818,823,824		2SC945L(QA,PA)	Si. Transistor		13
X803, 806	⚠	2SD571(LA,KA)	"		2
X807	⚠	2SB605(LA,KA)	"		1
X813, 814	⚠	2SD471(LA,KA)	"		2
X815, 816	⚠	2SC2001(L, K)	"		2
X819		2SA733A(P, K)	"		1
IC801		M54886P	Intergrated Circuit		1
IC802		DN6835	"		1
R888	⚠	QRG026J-120	O.M.F. Resistor		1
R998	⚠	*QRD149J-5R6S	C. Resistor (UF)		1
		QM21010-053	Lug Strip Ass'y	for R888	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
CN801	QMV5004-012	Plug Ass'y		1
CN802, 803	" -006	"		2
CN804	" -004	"		1
CN805	" -003	"		1
	TAH000459-01	Mark		1
	E43727-003	Wrapping Pin		8
	QCF11HP-473	F.C. Capacitor		1
	QSP0029-001	Slide Switch	Tape Switch Rec. Proof	1
L801, 802	T41572-001	Inductor		2

Display P.W.B. Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
IC701	VMW3534-003	P.W. Board		1
IC702	BG-84ZS	FL. Tube		1
X701, 702	AN6870	Integrated Circuit		1
	UPC358C	"		1
	2SC945L(QA,PA)	Transistor		2
D501, 601, 701	MA150	Diode		3
D702	RD4.3E(B3)	Zener Diode		1
R501, 707, 708	QRD143J-274S	C. Resistor	270 k Ω ¼ W	3
R601	QRD147J-274S	"	270 k Ω "	1
R502, 602	" -683S	"	68 k Ω "	2
R503	QRD143J-223S	"	22 k Ω "	1
R603	QRD147J-223S	"	22 k Ω "	1
R504, 604	" -273S	"	27 k Ω "	2
R505, 605	" -684S	"	680 k Ω "	2
R506, 606	QRD143J-474S	"	470 k Ω "	2
R507, 607, 706, 709	" -103S	"	10 k Ω "	4
R510, 610, 703	QRD147J-222S	"	2.2 k Ω "	3
R701	QRD143J-152S	"	1.5 k Ω "	1
R702	QRD147J-182S	"	1.8 k Ω "	1
R704	" -151S	"	150 Ω "	1
R705	" -271S	"	270 Ω "	1
R710	QRD143J-273S	"	27 k Ω "	1
	V44611-008	Formed Bus Wire	(R711, 712)	1
	QRD126K-8R2	Fail Safe C. Resistor	8.2 Ω ½ W	1
VR701	QVP8A0B-024	V. Resistor		1
VR501, 601	" -023	"		2
C501, 601	QET41HR-104N	E. Capacitor	0.1 μ F 50 V	2
C502, 602, 503, 603	" -474N	"	0.47 μ F "	4
C701, 706	QET41AR-476N	"	47 μ F 10 V	2
C702, 707	QCF11HP-473	C. Capacitor	0.047 μ F 50 V	2
C703	" -103	"	0.01 μ F "	1
C704, 705	QET41HR-475N	E. Capacitor	4.7 μ F "	2
C708	QET41ER-107N	"	100 μ F 25 V	1
CN701	QMV5005-006	Plug Ass'y		1
	V44611-008	Formed Bus Wire	10 mm	2
	E43727-002	Wrapping Pin		2

Other P.W. Board Parts

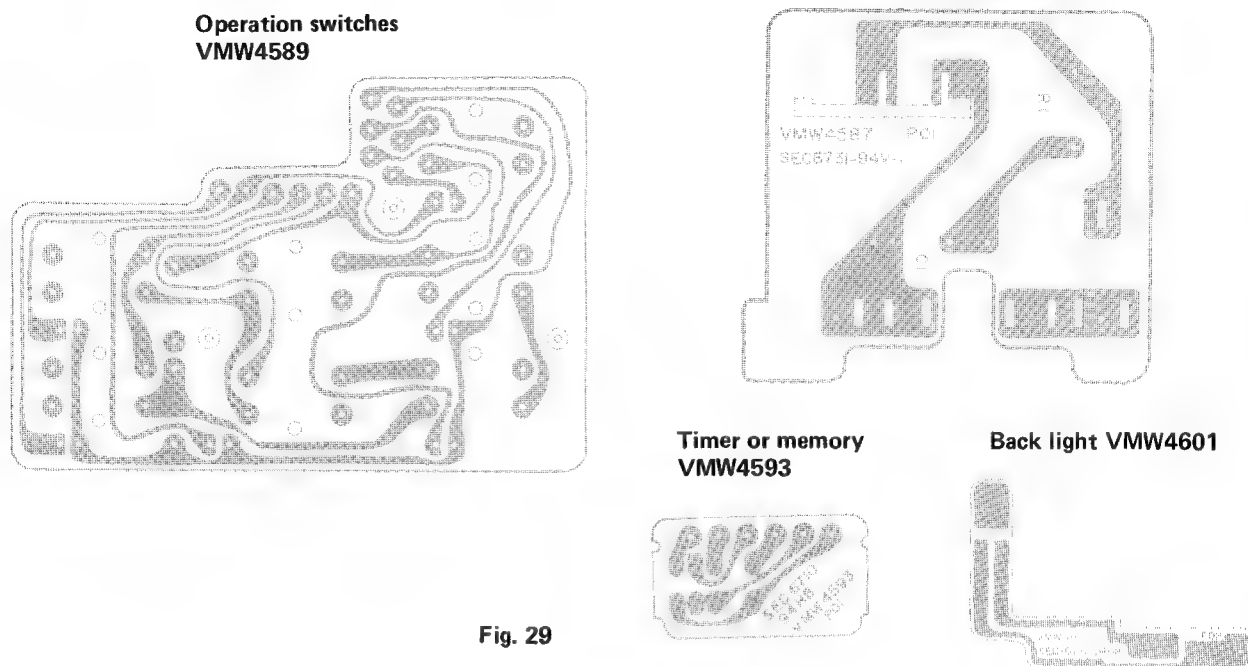


Fig. 29

Other P.W.B. Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
[Power switch]					
		VMW4587-001	P.W.B.		1
		QSP1110-305	Push Switch	DD-5A/E	1
		" -305BS	"	DD-5B	1
		" -308	"	DD-5C/J	1
		" -306	"	DD-5U	1
		QCZ9010-103	M.P. Capacitor	DD-5A/B	1
		QCZ9014-103	C. Capacitor	DD-5C/E/J	1
		QCZ9015-103	"	DD-5U	1
	⚠	QRD149J-820S	Fail Safe Resistor	82 Ω $\frac{1}{4}$ W	1
		E40130-001	Tab		4
[Timer]					
		VMW4593-001	P.W.B.		1
		QSS2301-102	Slide Switch		1
		SSSP2606Z	Screw		2
[Memory]					
		VMW4593-001	P.W.B.		1
		QSS2301-102	Slide Switch		1
		SSSP2606Z	Screw		2
[Switch]					
		VMW4589-001	P.W.B.		1
		QSP0021-002A	Tact Switch		7
		SLP-155B-01V	LED	(Red) REC, REC MUTE	2
		SLP-255B-01V	"	(Green) PLAY, PAUSE	2
[Back light]					
		QRD147J-391S	C. Resistor	390 Ω $\frac{1}{4}$ W	2
		" -471S	"	470 Ω "	2
		VMW4601	P.W.B.		1
		LD-702	L.E.D.		1

DD Motor Circuit Parts List

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
R1		QRD143J-272S	C. Resistor	2.7 kΩ ¼ W	1
R2, 16		" -181S	"	180 Ω "	2
R3		" -332S	"	3.3 kΩ "	1
R4		" -182S	"	1.8 kΩ "	1
R5, 6, 7, 8		" -472S	"	4.7 kΩ "	4
R9, 10, 23		" -681S	"	680 Ω "	3
R11, 12		QRD141J-681S	"	680 Ω "	2
R13		QRD143J-101S	"	100 Ω "	1
R14, 25		" -122S	"	1.2 kΩ "	2
R15		" -222S	"	2.2 kΩ "	1
R17		" -184S	"	180 kΩ "	1
R18		" -331S	"	330 Ω "	1
R19		" -243S	"	24 kΩ "	1
R20, 21		" -682S	"	6.8 kΩ "	2
R22		" -105S	"	1 MΩ "	1
R24		" -103S	"	10 kΩ "	1
R28	⚠	QRV146F-823	O.M.F. Resistor	82 kΩ "	1
R30		QRD143J-122	C. Resistor	1.2 kΩ "	1
VR1		RVAH306-473	V. Resistor	47 kΩ "	1
C1, 2, 4		QET41HK-474	E. Capacitor	0.47 μF 50 V	3
C3		" -105	"	1 μF "	1
C5		" -476	"	47 μF "	1
C6		QFN41HK-471	"	470 pF "	1
C7		QFM41HK-472	"	0.0047 μF "	1
C8, 9		" -223	"	0.022 μF "	2
C11		APS223J50-223	Film Capacitor	(or J100) 0.022 μF	1
C12		QCT05CH-151	C. Capacitor	150 pF 50 V	1
D1		1SS53	Diode		1
X1-4		2SC2001(K, L)	Transistor		4
X5-8		2SA733(P, Q)	"		4
X9		2SA733(P, K)	"		1
X10-12		2SC945(P, K)	"		3
IC1		VC1029	I.C.		1
		M30997A	Bearing Holder Ass'y		1
		M30998A	Yoke Plate Ass'y		1
		MC950A	Motor Ass'y		1

* DD motor circuit diagram refer to page 5.

Packing

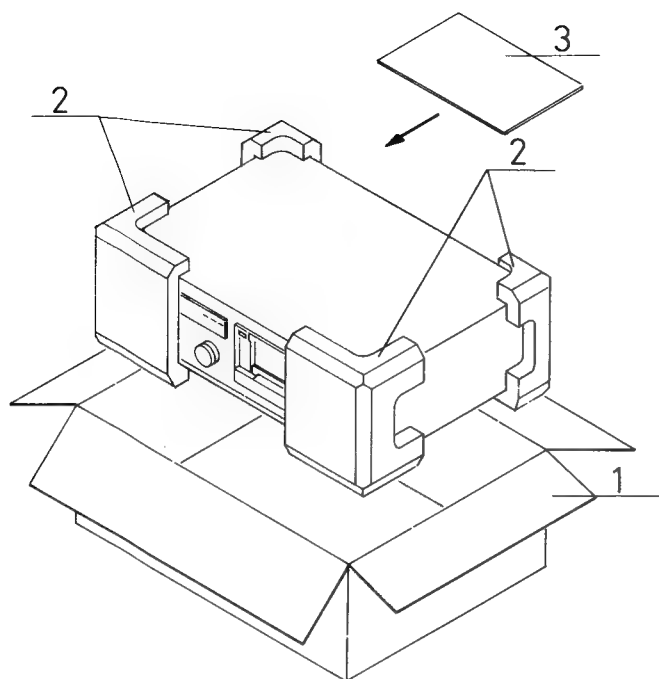


Fig. 30

Position of controls and switch knobs at renew packing.

Power switch	: OFF
Timer switch	: OFF
Output level control	: MAX
Input select switch	: LINE
ANRS switch	: OFF
Tape select switch	: SF/NORM
Input level control	: MIN
Counter	: 000
Auto rewind switch	: OFF
Mecha. operation buttons	: OFF

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1, 2	VDP2072-002A	Packing Case Ass'y	DD-5A/B/E/J/U	1 set
1, 2	" -003A	"	DD-5C	1 set
1	VPD2072-J02	Case	DD-5A/B/E/J/U	1
1	" -J03	"	DD-5C	1
2	VPH3114-001	Cushion	Left	1
2	VPH3115-001	"	Right	1
	OPGA060-06005	Envelope	for Cassette Deck	1
	AP4056A-036	"	for Power Cord, provided cord	2
3	AP4056B-077	"	for Instruction Book	1
	TKS000501-01	Sheet	for Cassette Deck	1

Parts No.	Parts Name	Remarks	Q'ty
VNF0069-001	Feature Sticker	DD-5A/C/J/U	1
VNF0069-002	"	DD-5B/E	1
VND4042-001	Caution Sticker	Timer Safety Lock Caution	1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

	Parts No.	Parts Name	Remarks	Q'ty
	CN-201	DIN Cord	DD-5B/E	1
	VMP0002-00B	Pin Cord	DD-5A/C/J/U	2
	VYA4001-00A	Head Cleaning Stick		1
	VNN0069-901	Instruction Book		1
	BT20029B	Warranty Card	DD-5A	1
	BT20013C	Guarantee Certificate	DD-5B	1
	BT20025D	Warranty Card	DD-5C	1
	BT20032B	"	DD-5J/U	1
	TJL000443-01	Seal	DD-5B	1
	VND4013-001	Warning Label	Disconnection DD-5A/B/E	1
	OZL1002-003BS	"	2-Pin Power Cord DD-5B	1
	T46328-003	Caution Label	V. Selector DD-5B	1
	" -004	"	" DD-5E	1
	" -001	"	DD-5U	1
	TLT000505-01	UL/CSA Caution Label	DD-5C/J	2
	BT20042	Special Reply Card	DD-5J/U for PX, EES	1
	E7795-1	EP Mark	DD-5U for PX, EES	1
	VNC5311-101	Caution Card	DD-5U for EES	1
⚠	V04062-001	Siemens Plug	DD-5U for PX, EES	1
	VNC5004-001	Mark Sticker	DIN 45500 DD-5B/E	1
	BXN750110UU	JVC Microphone Guide	DD-5B/E	1
	VND4016-001	Metal Sticker		1
	BT20044B	Safety Instruction	DD-5J	1

JVC

VICTOR COMPANY OF JAPAN, LIMITED.

RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan



Supplementary SERVICE MANUAL

MODEL DD-5 A/B/C/E/J/U

This manual is supplementary of Service Manual (No. 4197) for Model DD-5A/B/C/E/J/U.

The other parts not listed here are the same as those of the service manual (No. 4197).

Please give an order to us for the parts concerned to keep them as spare.

Page 23-25

Enclosure Assembly and Electrical Parts List (Except P. W. Board Parts)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VJD3213-002	Jack Escutcheon		1
(2-4,6,8,9)	ZCDD-5Y-CBF	Front Plate Ass'y		1
2	VJC1130-004	Front Plate		1
3	VJD3234-002	Escutcheon		1
4	VJK4001-001	Counter Lens		1
5	VXP4083-001	Push Button	for Reset	1
6	VJD3234-001	Escutcheon		1
7	VXP4087-001	Push Button	for Power	1
8	VJD3239-001	Finder		1
9	VJD4432-002	DD Mark		1
10	VJD2162-001	Button Escutcheon		1
11	VXP4084-001	Push Button		5
12	VXP4085-001	"	Play Button	2
13	VXP4086-00A	Push Button Ass'y	Eject	1
14	VJD3252-00A	Holder Plate Ass'y		1
15	VJD4437-002	Disc Plate		1
16	VKL4380-00A	Cross Bar Ass'y		1
17	VKL4844-00A	"		1
18	VKL4842-00A	Holder Bracket Ass'y		1
19	VJD3237-004	Tape Holder (R)	Right	1
20	VJD3238-004	" (L)	Left	1
21	VKY4218-001	Cassette Spring (L)	VKY4217-001(R)	1
22	VKL4403-00E	Shift Arm Ass'y		1
23	T43909-004	Metal		1
24	VKL4841-00A	Mecha. Bracket (L) Ass'y		1
25	VKW4250-005	Holder Spring		1
26	" -006	"		1
27	VKL4169-00A	Gear Frame Ass'y		1
28	VKS4352-001	Spur Gear		1
29	VKS4109-004	Brake Drum		1
30	VKS3102-001	Rack Plate		1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
31		VKH4123-001	Collar		1
32		VKS4110-002	Brake Arm		1
33		VKL4217-001	Rubber Retainer		1
34		VKZ4111-001	Rubber Tire		1
35		VKL4847-00A	Arm Bracket Ass'y		1
36		VJT2049-003	Cassette Holder		1
37		VJT4035-001	Holder Plate		1
38		VJT3059-002	Cassette Lid		1
39		VJT4036-001	Lid Plate		1
40		VJT4037-001	Plate		2
41		—	—		—
42		VJD3235-002	Meter Escutcheon		1
43		VJK4131-001	Filter		1
44		VXS4041-001	Slide Knob	Timer & Memory	2
45		VKL4843-002	Bracket	Timer Safety	1
46		VXS3003-001	Slide Knob	Output	1
47		VJD4431-001	Blind		1
48		VXL4127-00A	Knob Ass'y	Input (L)	1
49		VXL4128-001	Volume Knob	" (R)	1
50		VXP4088-001	Push Button		6
51		VJC1132-001	Top Cover		1
52		VKZ3001-002	Special Screw		4
53		VJC1133-002	Bottom Cover		1
54		VJF4003-002	Foot		4
55		VYN2072-003KA	Name Plate	DD-5A	1
		" -002KA	"	DD-5B	1
		" -004KA	"	DD-5C	1
		" -005KA	"	DD-5E	1
		" -006KA	"	DD-5J	1
		" -007KA	"	DD-5U	1
56		E47829-002	Plastic Rivet		2
57		VKL1186-001	Amp. Chassis (R)		1
58		VKL3257-001	" (L)		1
59		VKL3258-001	Power Bracket	for Push Switch	1
60	⚠	QSP1110-305	Push Switch	DD-5A/E	1
	⚠	" -305BS	"	DD-5B	1
	⚠	" -308	"	DD-5C/J	1
	⚠	" -306	"	DD-5U	1
61	⚠	VTP66T7-021T	Power Transformer	DD-5A	1
	⚠	VTP66C7-031TBS	"	DD-5B	1
	⚠	VTP66A7-031T	"	DD-5C/J	1
	⚠	VTP66C7-031T	"	DD-5E	1
	⚠	VTP66U7-031T	"	DD-5U	1
62		WNS3000Z	Washer	Power Trans.	4
63		VKZ4001-011	Wire Holder		8
64		VJC1131-001	Front Panel		1
65		QSS2301-102	Slide Switch		1
66		QSP0021-002A	Tact Switch		7
67		SLP-155B-01V	LED	(Red) REC, REC MUTE	1
68		SLP-255B-01V	"	(Green) PLAY, PAUSE	1
69		VJC1134-003	Rear Panel	DD-5A/C/J	1
		" -002	"	DD-5B/E/U	1
70	⚠	QMP2560-200	Power Cord	DD-5A	1
	⚠	QMP9017-008BS	"	DD-5B	1
	⚠	QMP1200-200	"	DD-5C/J	1
	⚠	QMP3900-200	"	DD-5E	1
	⚠	QMP7600-200	"	DD-5U	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
71	△	QHS3876-162	Strain Relief	DD-5A/C/E/J/U	1
	△	" -162BS	"	DD-5B	1
73		QMC0888-008	DIN Socket	for Remote	1
74		VKS4003-004	Pipe		1
75		BG-84ZS	FL Tube		1
76		VKL3252-001	Bracket		1
77		VKL4839-00C	Lock Arm Ass'y		1
78		VKH3013-005	Collar		1
79		VKZ4143-002	Special Screw		1
80		VKW3002-043	Spring		2
81		TJN265559-04	Silencer		1
82		LD-702	LED		1
83		VKZ4001-010	Wire Holder		1
84		QSS2325-011BS	Voltage Select Switch	DD-5B	1
		" -011	"	DD-5E	1
		QSR0084-001	"	DD-5U	1
85		VKL4275-001	Bracket	DD-5U	1
86		VKC5139-002S	Counter Knob		1
87		VKW4311-001	Compression Spring		1
88		—	—		—
89		VYSR102-004	Spacer		1
90		VYSR101-003	"	Front Plate	3
91		VYSH203-001	"		7
92		VKZ4001-009	Wire Holder		1
93		VYSH115-005	Spacer		1
96		TAH000459-01	Mark	CN803	1
97		T47818-003	Spacer		2
101		VKW3001-006	Spring		1
102-1		VKW4265-002	Button Spring		1
102-2		VKW3001-028	Compression Spring		1
103		" -057	"		1
104		" -058	"		1
105		VKW4106-001			1
106		REE2000	"E" Ring	Brake Drum x 2, Arm Bracket Ass'y x 2	4
107		REE2500	"	Push Button Ass'y x 1, Flange Shaft x 2, Holder Spring x 2	5
108		Q03093-524	Washer		1
109		WNS2600Z	"		1
110		LDSP2604R	Screw	Arm Bracket Ass'y	1
111		VKZ4143-002	Special Screw	for Mecha. Bracket — Mecha. Chassis	2
112		LPSP2606Z	Screw		1
113		LPSP2608Z	"		1
114		SDSF2605R	"	Tape Holder (R) x 2, Tape Holder (L) x 2, Cassette Spring x 2	6
115		SSSB3008C	"	Mecha. — Amp. Chassis	2
116		SBSB3006Z	"		2
117		SDSB3008R	"	Top Cover x 1, Rear Panel x 5, Jack Escutcheon x 9	9
118		SDSB3008Z	"	Bottom Cover	6
119		SSSB3008Z	"	Front Plate — Front Panel	5
120		SSSP3006CS	"	Mecha. — Front Plate	2
121		LPSP3006ZS	"	Power Switch x 2, Voltage Selector (DD-5U) x 1	3
122		SBSB3006Z	"	Power Bracket x 2, Wire Holder x 7	9
123		SDSC3008Z	"	Power Transformer	4
124		SSSB3006Z	"	Front Panel	5
125		SSSP2605Z	"	Slide Switch (Timer) x 2, Slide Switch (Memory) x 2	4

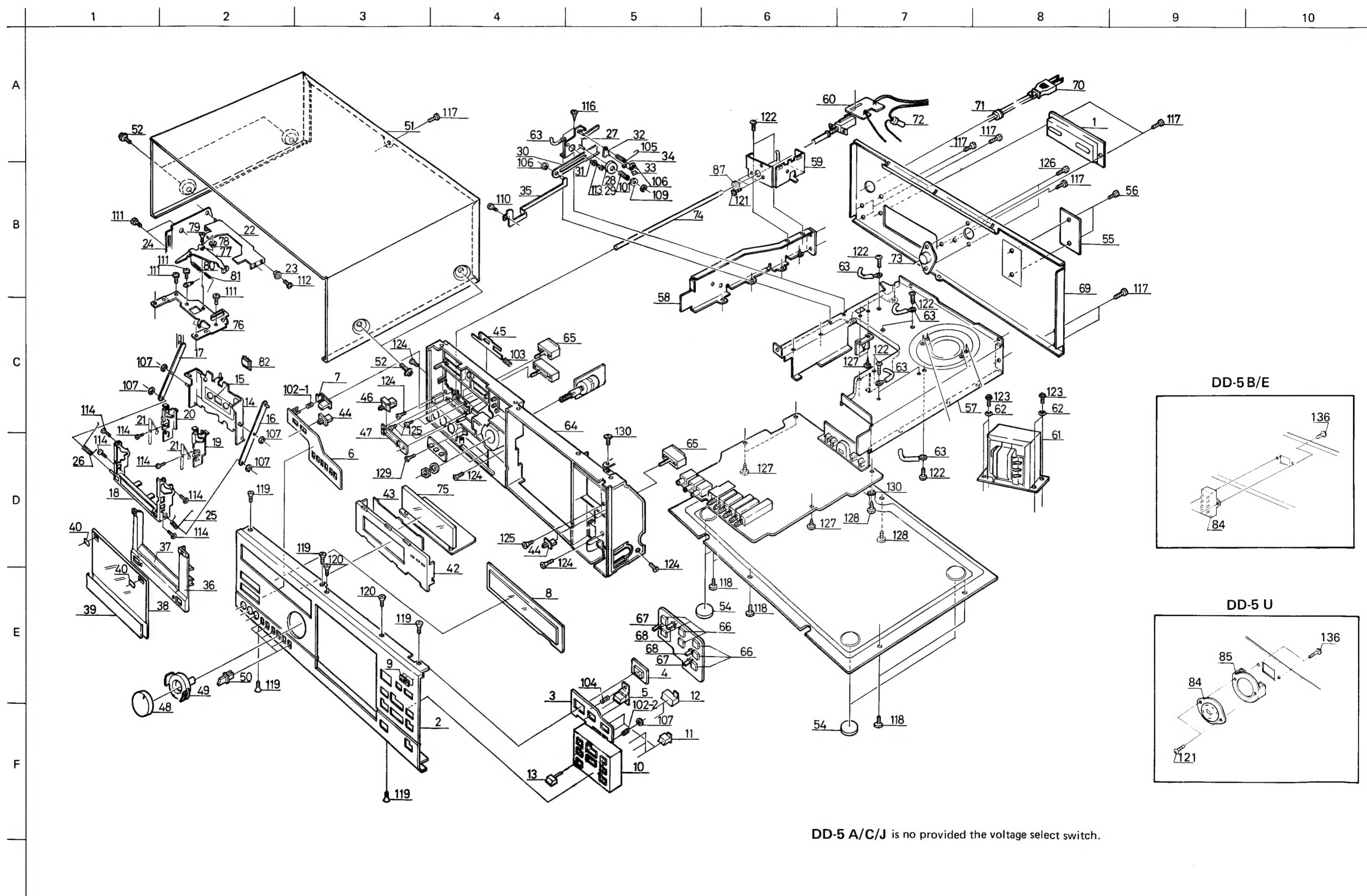
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
126	SDSP2605R	Screw	Remote	2
127	SBSB3006V	"	Heat Sink x 2, Main P.W.B. x 5	7
128	SBSB3008Z	"	P.W.B. Earth	1
129	SBSF2610Z	"	P.W. Board	3
130	SBSF3008C	"	Chassis Bracket — Front Panel	1
131	SSSP3008Z	"	Push Switch	2
132	WBS3000	Washer	P.W.B. Earth	1
133	Q03093-814	"		3
134	SDSB3008C	Screw	Mecha. — Amp. Chassis	2
135	LPSP2605Z	"	Bracket	2
136	SDSP3006RS	"	V. Select	2
137	SSSP2006Z	"	Output VR	2
138	SDSB3004R	"	Rear Panel x 1	1
139	Q03093-504	N. Washer		2

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Mechanical Component Parts List

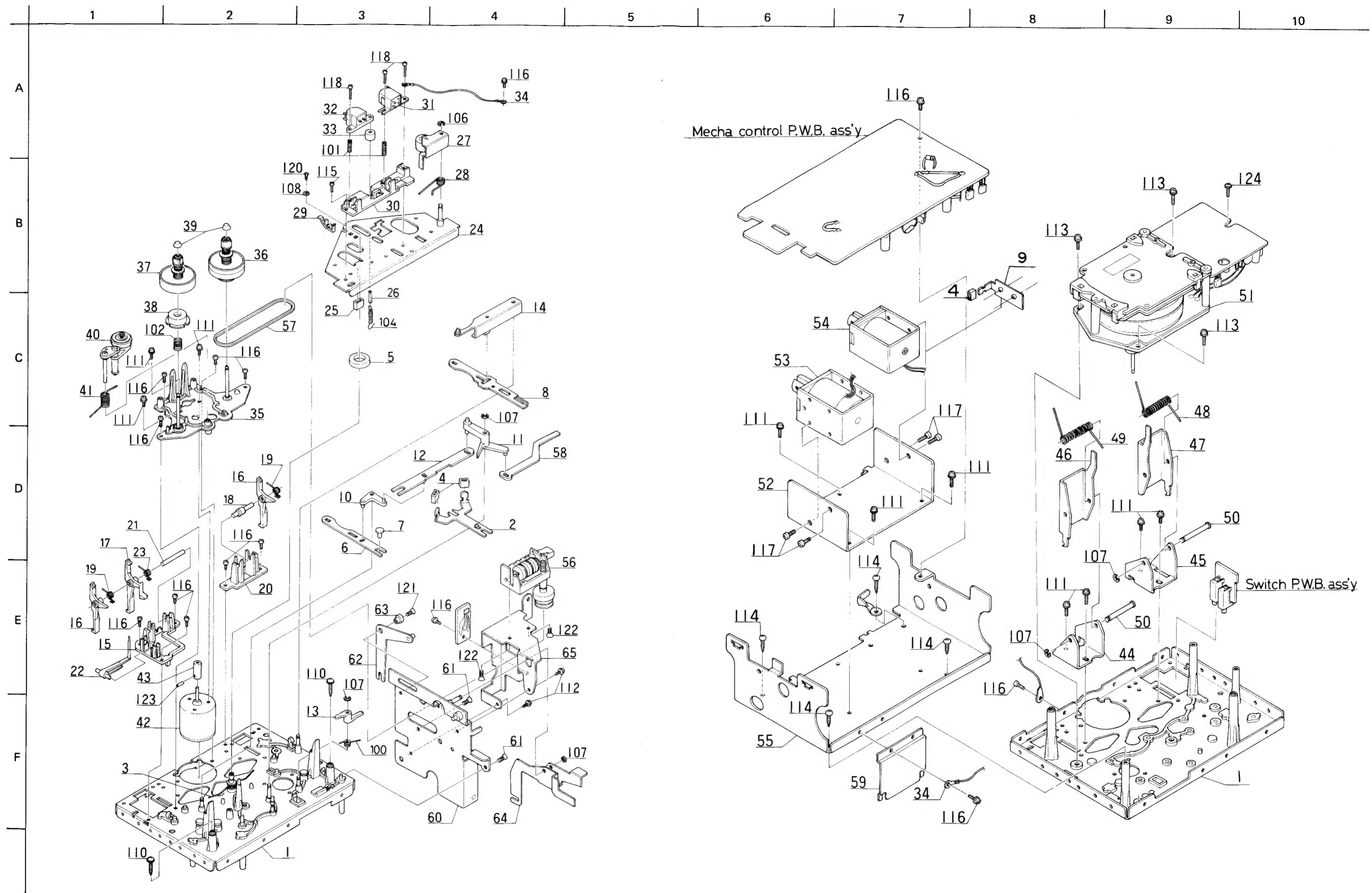
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL1184-00A	Chassis Base Ass'y		1
2	VKL4823-001	Brake Bar		1
3	VKW4243-001	Brake Bar Spring		1
4	VKZ4129-001	Rubber Tire		3
5	VKZ4005-003	Stopper		1
6	VKL4824-001	Lock Plate (1)		1
7	VKS4233-001	Lock Bush		3
8	VKL4945-001	Slide Plate		1
9	VKL4944-001	Stopper		1
10	VKS4258-00C	Connecting Lever Ass'y		1
11	VKS4260-00B	Lock Lever Ass'y		1
12	VKL4827-001	Lock Plate (2)		1
13	VKS4262-001	Pause Lever		1
14	VKL4828-00A	Play Arm Ass'y		1
15	VKS2110-002	Switch Holder	Left	1
16	VKS4263-001	Pressure Lever		2
17	VKS4264-001	Switch Lever		1
18	VKH4264-001	Shaft		1
19	VKW4138-001	Pressure Lever Spring		2
20	VKS3125-001	Switch Holder	Right	1
21	VKH4196-001	Shaft		1
22	VKS4265-002	Cassette SW. Lever		1
23	VKW4191-001	Pressure Lever Spring		1
24	VKL4830-00A	Slide Base Ass'y		1
25	VKZ4129-001	Rubber Tire		1
26	TJN265559-02	Silencer		1
27	VKP4113-00A	Pinch Roller Arm Ass'y		1
28	VKW4240-001	Pinch Roller Spring		1
29	VKS4266-001	Shift Lever		1
30	VKS2102-001	Head Mount Base		1

Enclosure Ass'y and Electrical Parts (Except P.W. Board Parts)



DD-5 A/C/J is no provided the voltage select switch.

Mechanical Component Parts



Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
31	ZMM074436-0A	R/P Head Ass'y		1
32	VGH0212-103	E. Head Ass'y		1
33	VKH4215-001	Head Collar		1
34	VMZ0008-00A	Wire Ass'y		1
35	VKL3155-00A	Reel Disk Bracket Ass'y		1
36	VKR4113-00C	Take-up Reel Ass'y		1
37	VKR4118-00B	Supply Reel Ass'y		1
38	VKS4130-001	Back Tension Base		1
39	VKS4131-002	Reel Stopper		2
40	VKS4151-00D	Idler Ass'y Unit		1
41	VKW4134-001	Idler Spring		1
42	MDN-7V1-3	Reel Motor		1
43	VKR4121-001	Motor Pulley		1
44	VKL4832-001	Shaft Holder		1
45	VKL4832-002	"		1
46	VKL4833-001	Solenoid Lever		1
47	VKL4833-002	"		1
48	VKW4241-001	Solenoid Lever Spring		1
49	VKW4241-002	"		1
50	VKH4292-001	Shaft		2
51	MC950A	DD Motor Ass'y		1
52	VKL4867-001	Solenoid Bracket		1
53	VGP0301-005	D.C. Solenoid Ass'y	Play	1
54	VGP0201-008	"	Lock	1
55	VKL3254-002	Holder Bracket		1
56	VKC5134-002S	Counter Ass'y		1
57	VKB3000-025	Counter Belt		1
58	VKL4912-002	Lock Bar		1
59	VKL4913-001	Flywheel Cover		1
60	VKL4835-00B	Mecha. Bracket (R) Ass'y		1
61	VKZ4143-002	Special Screw	Mecha. Bracket	3
62	VKL4836-00A	Eject Arm Ass'y		1
63	VKH3013-004	Flange Collar		1
64	VKL4838-003	Eject Lever		1
65	VKL4870-001	Counter Bracket		1
66	VMZ0008-00A	Wire Ass'y		1
100	VKW4268-001	Lock Bar Spring		1
101	VKW3001-020	Comp. Spring		2
102	" -026	"	Back Tension	1
103	" -036	"		1
104	VKW3002-005	Spring	Slide Base	1
106	REE2000	E-Ring		1
107	REE2500	"		6
108	WNS3000N	Washer		1
109	WSS2000N	"	Comp. Spring	1
110	GPSP2612Z	Tapping Screw	Slide Base	2
111	LPSP2604Z	Screw	Reel Motor x 3, Shaft Holder x 4, Solenoid Bracket x 3	10
112	LPSP2605Z	"	Counter Bracket	2
113	LPSP2606Z	"	D.D. Motor Ass'y	3
114	SBSB2608Z	Tapping Screw	Holder Bracket	4
115	SPSP2006Z	Screw	Head Mount Base	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
116	SPSP2606Z	Screw	Switch Holder x 5, Reel Ass'y Unit x 4, Flywheel Cover x 2, Wire Ass'y x 1	12
117	SPSP3004ZS	"	D.C. Solenoid Ass'y	4
118	SPSX2010N	"	Head	3
119	SPSX2014Z	"	E. Head	1
120	SSSK2650Z	Mini Screw	Slide Base	1
121	SSSP2605Z	Screw	Flange Collar	1
122	SSSP3006ZS	"	Counter Ass'y	2
123	YRS2603B	"	Motor Pulley	1
124	GPSA2608Z	"	D.D. Motor Ass'y	1

JVC

VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city, Japan